Grade 5
Math Skills

Name: _____

Teacher: _____

Writing Place Value

Fill in the missing numbers in the box. Then write the place values on the line provided.

① 425 = 400 + [20] + 5

= Four Hundreds, two tens, and five ones.

② 594 = [ ] + 90 + [ ]

= _____

③ 3422 = [ ] + [ ] + [ ] + 2

= _____

④ 42677 = 40,000 + [ ] + [ ] + 70 + 7

= _____

⑤ 8245 = 8000 + [ ] + [ ] + 5

= _____

⑥ 82432 = [ ] + [ ] + [ ] + [ ] + [ ]

= _____

⑦ 576837 = 500000 + [ ] + [ ] + [ ] + [ ] + [ ]

= _____

⑧ 786035 = [ ] + [ ] + [ ] + [ ] + 5

= _____

⑨ 8811234 = [ ] + [ ] + [ ] + [ ] + [ ] + [ ] + [ ]

= _____

⑩ 7248 = [ ] + [ ] + [ ] + [ ]

=

Diagnostic Assessment 1

Multiplying by 10, 100, and 1,000

Name: _____ Pretest Date: _____

Post Test Date: _____

Solve.

1. $10 \times 4 =$ _____
2. $1{,}000 \times 10 =$ _____
3. $3 \times 100 =$ _____
4. $10 \times 8 =$ _____
5. $9 \times 1{,}000 =$ _____
6. $2 \times 1{,}000 =$ _____
7. $1{,}000 \times 6 =$ _____
8. $9 \times 10 =$ _____
9. $7 \times 100 =$ _____
10. $100 \times 4 =$ _____
11. $10 \times 7 =$ _____
12. $5 \times 1{,}000 =$ _____
13. $100 \times 5 =$ _____
14. $100 \times 10 =$ _____
15. $10 \times 5 =$ _____
16. $8 \times 1{,}000 =$ _____
17. $10 \times 10 =$ _____
18. $6 \times 10 =$ _____
19. $6 \times 100 =$ _____
20. $8 \times 100 =$ _____
21. $1{,}000 \times 4 =$ _____
22. $3 \times 10 =$ _____
23. $3 \times 1{,}000 =$ _____
24. $100 \times 2 =$ _____

Name _____

Find the quotient.

1. $12 \div 4 =$ _____ 2. $6 \div 6 =$ _____ 3. $49 \div 7 =$ _____

4. $16 \div 8 =$ _____ 5. $18 \div 6 =$ _____ 6. $48 \div 6 =$ _____

7. $42 \div 7 =$ _____ 8. $1 \div 1 =$ _____ 9. $35 \div 7 =$ _____

10. $28 \div 7 =$ _____ 11. $7 \div 1 =$ _____ 12. $40 \div 10 =$ _____

13. $42 \div 6 =$ _____ 14. $72 \div 9 =$ _____ 15. $50 \div 10 =$ _____

16. $12 \div 2 =$ _____ 17. $18 \div 3 =$ _____ 18. $5 \div 1 =$ _____

19. $2 \div 2 =$ _____ 20. $72 \div 8 =$ _____ 21. $25 \div 5 =$ _____

22. $18 \div 2 =$ _____ 23. $54 \div 9 =$ _____ 24. $20 \div 10 =$ _____

25. $24 \div 3 =$ _____ 26. $15 \div 3 =$ _____ 27. $56 \div 8 =$ _____

Name _____

Fill in the missing number.

1. $20 \div \_\_\_ = 10$
2. $\_\_\_ \div 2 = 1$
3. $\_\_\_ \div 7 = 3$
4. $\_\_\_ \div 2 = 2$
5. $12 \div \_\_\_ = 2$
6. $12 \div 3 = \_\_\_$
7. $70 \div 7 = \_\_\_$
8. $8 \div 8 = \_\_\_$
9. $24 \div 8 = \_\_\_$
10. $63 \div 7 = \_\_\_$
11. $6 \div \_\_\_ = 6$
12. $63 \div 9 = \_\_\_$
13. $\_\_\_ \div 8 = 11$
14. $\_\_\_ \div 6 = 1$
15. $\_\_\_ \div 8 = 10$
16. $40 \div 4 = \_\_\_$
17. $44 \div 4 = \_\_\_$
18. $66 \div \_\_\_ = 11$
19. $49 \div \_\_\_ = 7$
20. $6 \div \_\_\_ = 3$
21. $20 \div \_\_\_ = 4$
22. $48 \div \_\_\_ = 6$
23. $\_\_\_ \div 2 = 9$
24. $\_\_\_ \div 4 = 3$
25. $22 \div \_\_\_ = 11$
26. $15 \div 5 = \_\_\_$
27. $\_\_\_ \div 4 = 5$

Diagnostic Assessment 2

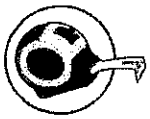
Dividing by 10, 100, and 1,000

Name: _____ Pretest Date: _____

Post Test Date: _____

Solve.

1. 90 ÷ 10 = _____
2. 1,000 ÷ 100 = _____
3. 20 ÷ 10 = _____
4. 60 ÷ 10 = _____
5. 70 ÷ 10 = _____
6. 80 ÷ 10 = _____
7. 700 ÷ 100 = _____
8. 2,000 ÷ 1,000 = _____
9. 7,000 ÷ 1,000 = _____
10. 50 ÷ 10 = _____
11. 3,000 ÷ 1,000 = _____
12. 200 ÷ 100 = _____
13. 300 ÷ 100 = _____
14. 1,000 ÷ 1,000 = _____
15. 4,000 ÷ 1,000 = _____
16. 500 ÷ 100 = _____
17. 5,000 ÷ 1,000 = _____
18. 8,000 ÷ 1,000 = _____
19. 30 ÷ 10 = _____
20. 400 ÷ 100 = _____
21. 600 ÷ 100 = _____
22. 9,000 ÷ 1,000 = _____
23. 800 ÷ 100 = _____
24. 40 ÷ 10 = _____



Diagnostic Assessment 3

Multiplying by 6, 7, 8 and 9

Name: _____ Pretest Date: _____

Post Test Date: _____

Solve.

1. $7 \times 9 =$ _____
2. $9 \times 2 =$ _____
3. $7 \times 8 =$ _____
4. $9 \times 6 =$ _____
5. $8 \times 2 =$ _____
6. $7 \times 4 =$ _____
7. $1 \times 7 =$ _____
8. $6 \times 4 =$ _____
9. $4 \times 8 =$ _____
10. $6 \times 7 =$ _____
11. $6 \times 6 =$ _____
12. $4 \times 7 =$ _____
13. $3 \times 9 =$ _____
14. $3 \times 8 =$ _____
15. $8 \times 7 =$ _____
16. $9 \times 5 =$ _____
17. $4 \times 9 =$ _____
18. $5 \times 8 =$ _____
19. $6 \times 9 =$ _____
20. $6 \times 5 =$ _____
21. $6 \times 8 =$ _____
22. $6 \times 3 =$ _____
23. $7 \times 9 =$ _____
24. $8 \times 9 =$ _____

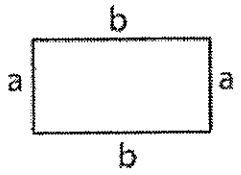
Geometry-Perimeter and Area

Perimeter: _____

Perimeter of a rectangle

The opposite sides of a rectangle are congruent.

$P = a + b + a + b$



$P = a + b + a + b$

Example:

If a = 3 units and b = 5 units then

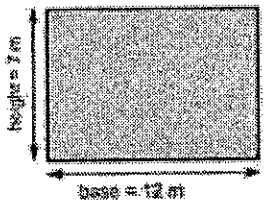
Perimeter (P) = 3 + 5 + 3 + 5 = 16 units

Area:

Area of Rectangle

The area of a Rectangle equals the base times the height.

$$A = b \times h$$

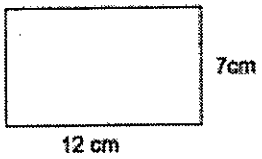


$A = b \times h$

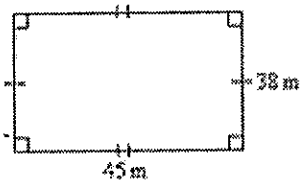
$A = 12 \times 7$

$A = 84\ m^2$

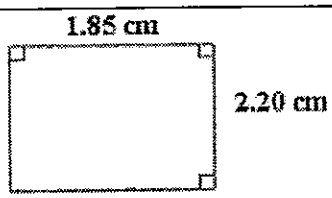
Find the perimeter and area of each shape:



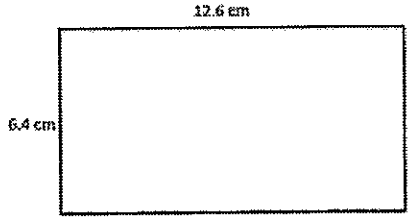
Perimeter:_____ **Area:**_____



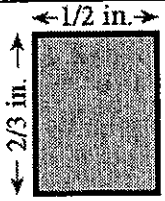
Perimeter:_____ **Area:**_____



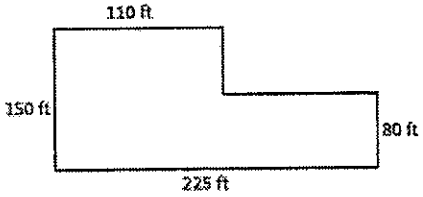
Perimeter:_____ **Area:**_____



Perimeter:_____ **Area:**_____



Perimeter:_____ **Area:**_____



Perimeter:_____ **Area:**_____

NO CALCULATOR! SHOW ALL WORK!

Whole Numbers – Adding and Subtracting

A) 451 + 23 + 659

$$\begin{array}{r} {\scriptstyle 1\ 1} \\ 451 \\ 23 \\ +\ 659 \\ \hline 1134 \end{array}$$

B) 700 – 128

$$\begin{array}{r} {\scriptstyle 6\ 9\ 10} \\ \not{7}\not{0}\not{0} \\ -128 \\ \hline 572 \end{array}$$

NO CALCULATOR! SHOW ALL WORK!

1. 623 + 433 + 56	2. 893 – 395
3. 1987 + 432 + 543 +28	4. 196 – 129 =
5. 98 + 45 – 32	6. 65 – 32 + 77
7. 439 + 53 – 488	8. 763 – 492 + 157

Name : _____

Multiplication | 3-Digit by 1-Digit

Find the product.

1. 847 × 3 = _____

2. 987 × 8 = _____

3. 855 × 6 = _____

4. 968 × 5 = _____

5. 385 × 4 = _____

6. 988 × 8 = _____

7. 648 × 8 = _____

8. 587 × 7 = _____

9. 775 × 9 = _____

10. 758 × 7 = _____

11. 881 × 9 = _____

12. 453 × 2 = _____

Name : _____

Score : _____ Date : _____

Two-Digit Multiplication Worksheet

37 × 18	41 × 47	73 × 48	10 × 29
15 × 35	63 × 53	32 × 67	45 × 30
39 × 33	11 × 33	28 × 66	82 × 28
16 × 73	93 × 22	36 × 21	62 × 17
83 × 27	44 × 66	70 × 28	81 × 38

Name : _____

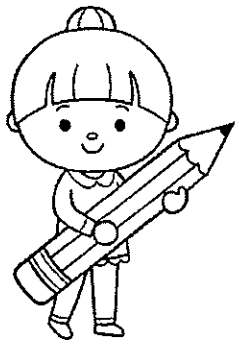
Score : _____ Date : _____

MATH MONKS

Multiply in Columns

2-Digit by 2-Digit

Find each product.



45 ×98	36 ×72	48 ×29	
66 ×44	86 ×56	74 ×21	18 ×76
88 ×25	54 ×42	19 ×18	51 ×73
63 ×79	45 ×28	65 ×47	

Name : _____

Score : _____

Multiplication - Double Digit

26 ×62	98 ×80	19 ×27	66 ×24
76 ×27	86 ×21	63 ×30	79 ×80
34 ×70	53 ×34	18 ×27	31 ×14
22 ×23	78 ×24	93 ×39	62 ×74
73 ×11	25 ×45	86 ×21	70 ×34

Name : _____

Score : _____

Multiplication - 2-Digit by 2-Digit

Find each product.

1) 36 × 53

2) 28 × 17

3) 48 × 33

4) 19 × 23

5) 67 × 53

6) 99 × 18

7) 53 × 18

8) 86 × 24

9) 68 × 19

10) 93 × 37

11) 70 × 29

12) 90 × 38

Name : _____

Score : _____ Date : _____

MULTIPLICATION

1	845 ×22	2	645 ×38	3	392 ×48
4	675 ×98	5	883 ×69	6	600 ×35
7	925 ×37	8	428 ×98	9	285 ×45
10	731 ×93	11	675 ×28	12	587 ×47

Name : _____

Multiply in Columns

3-Digit by 2-Digit

Find the product.

1) 484 × 28 = _____

2) 557 × 47 = _____

3) 428 × 28 = _____

4) 935 × 48 = _____

5) 818 × 54 = _____

6) 685 × 49 = _____

7) 515 × 27 = _____

8) 246 × 28 = _____

9) 375 × 17 = _____

10) 675 × 31 = _____

11) 817 × 33 = _____

12) 787 × 58 = _____

Name _____

Find the product.

1. 677 × 74

2. 254 × 68

3. 620 × 50

4. 610 × 71

5. 567 × 20

6. 597 × 46

7. 809 × 35

8. 207 × 36

9. 255 × 52

Whole Numbers – Multiplying and Dividing

A) 653 x 29

$$\begin{array}{r} 653 \\ \underline{\times\ 29} \\ 5877 \\ \underline{+13060} \\ 18937 \end{array}$$

1820 ÷ 28

$$\begin{array}{r} 65 \\ 28\overline{)1820} \\ \underline{-168} \\ 140 \\ \underline{-140} \end{array}$$

$$\begin{array}{r} 28 \\ \underline{\times\ 6} \\ 168 \end{array} \qquad \begin{array}{r} 28 \\ \underline{\times\ 5} \\ 140 \end{array}$$

NO CALCULATOR! SHOW ALL WORK!

1. 975 x 8	2. 109 x 7	3. 23 x 15
4. 73 x 18	5. 471 x 16	6. 981 x 65
7. 2970 ÷ 5	8. 2124 ÷ 4	9. 32751 ÷ 9
10. 5472 ÷ 19	11. 42800 ÷ 25	12. 3348 ÷ 31

Name: _____

Graph Paper Division

a. 5 | 1,478

b. 4 | 3,475

c. 3 | 1,165

d. 4 | 3,264

e. 7 | 2,355

f. 3 | 2,194

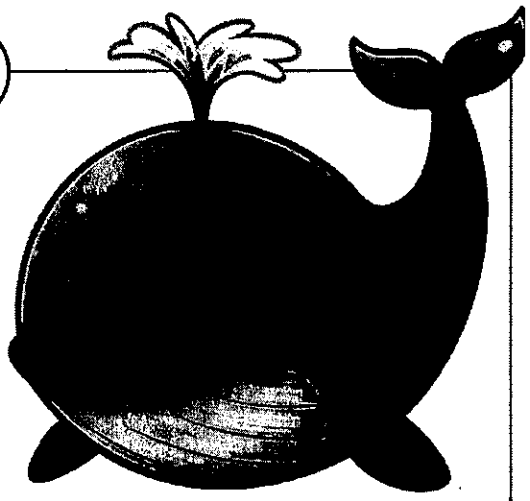
g. 4 | 2,760

h. 6 | 2,562

i. 8 | 3,385

Name: _____

Long Division



a. $6\overline{)1,892}$

b. $4\overline{)1,547}$

c. $3\overline{)2,351}$

d. $5\overline{)3,282}$

e. $7\overline{)2,309}$

f. $3\overline{)3,134}$

g. $9\overline{)8,402}$

h. $8\overline{)8,293}$

i. An average-sized gray whale eats 9,849 pounds of plankton per week. On average, how much does it eat per day?

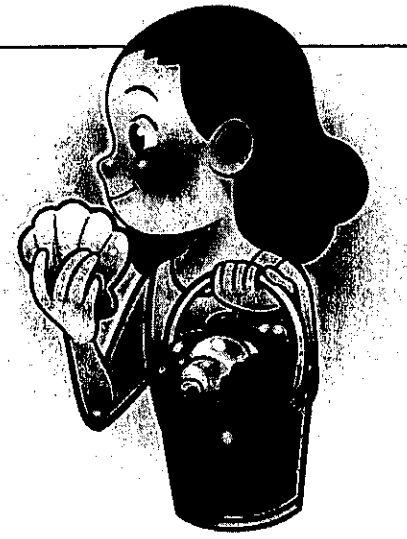
Show your work and label your answer.

_____

Name: _____

4-Digit Dividends and 2-Digit Divisors

Long Division



a. $66\overline{)4,281}$

b. $20\overline{)6,062}$

c. $21\overline{)5,805}$

d. $27\overline{)3,012}$

e. $17\overline{)3,016}$

f. $11\overline{)5,610}$

g. $26\overline{)6,442}$

h. $12\overline{)1,449}$

i. Carly has a seashell collection. She has 1,596 shells in her collection. She stores the shells in special boxes, each of which has 12 compartments. She keeps one shell in each compartment. How many boxes does she use to store her seashell collection?

Show your work and label your answer.

_____

Graph Paper Division

a. 45 | 855

b. 25 | 225

c. 95 | 665

d. 66 | 1,320

e. 23 | 2,783

f. 35 | 2,485

g. 50 | 9,300

h. 24 | 8,712

i. 55 | 4,400

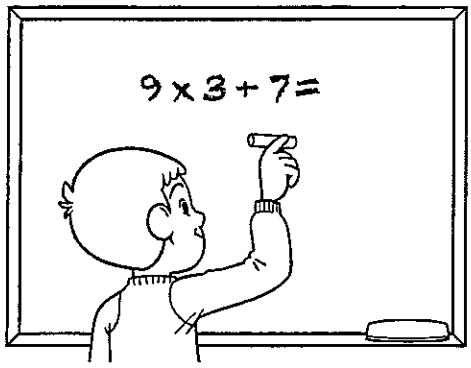
Division

Rewrite each problem and solve.

a. 8,523 ÷ 3 = _____	**b.** 2,347 ÷ 4 = _____	**c.** 7,513 ÷ 6 = _____
d. 6,835 ÷ 8 = _____	**e.** 3,746 ÷ 2 = _____	**f.** 9,957 ÷ 4 = _____
g. 4,938 ÷ 5 = _____	**h.** 5,873 ÷ 9 = _____	**i.** 8,065 ÷ 7 = _____

Name: _____

Order of Operations



When you have different operations in a math problem, you need to solve them in a specific order.

Step 1: Solve the part in parenthesis ( ).

Step 2: Multiply and divide.

Step 3: Add and subtract.

1. $(9 + 3) \div 2 =$ _____

2. $6 - 1 \times 4 =$ _____

3. $(2 \times 5) - 4 =$ _____

4. $36 - (4 + 8) \div 4 =$ _____

5. $50 - 5 \times (27 \div 3) =$ _____

6. $15 + 24 \div (8 - 2) =$ _____

7. Do **(12 + 6) ÷ 2** and **12 + 6 ÷ 2** have the same answer? Explain why.

_____

_____

_____

Order of Operations

Parentheses (Grouping Symbols)	$[(7-4)^2+3]+15$
Exponents	$=[3^2+3]+15$
Multiply or Divide, from left to right	$=[3\bullet 3+3]\div 15$
Add or Subtract, from left to right	$=[9+3]+15$
	$=12+15$
	$=27$

NO CALCULATOR!

1. $6\div 3+2\bullet 7$	2. $5+8\bullet 2-4$	3. $16\div 8\bullet 2^2$
4. $10\div(3+2)+9$	5. $7\bullet[(18-6)-6]$	6. $3+(27\div 9)-5$
7. $(5-3)^2+3$	8. $[10+(25\bullet 2)]\div 6$	9. $(9\bullet 2)+18\div 6$

1. Order of Operations

Simplify the expression.

$$83 - (9 - 2)^2$$

2. Order of Operations

Simplify the expression.

$$(16 - 8)^2 + 36$$

3. Order of Operations

Simplify the expression.

$$60 + 27 - 7^2$$

4. Order of Operations

Simplify the expression.

$$(42 - 35)^2 \div (49 \div 7)$$

5. Order of Operations

Simplify the expression.

$$(4 + 5)^2 \div 3^2$$

6. Order of Operations

Simplify the expression.

$$125 - (72 - 66)^2$$

7. Order of Operations

Simplify the expression.

$$36 + 8 \div 2$$

8. Order of Operations

Simplify the expression.

$$(2 + 2)^2 \div (2^2 + 2^2)$$

Name: _____

Factors and Multiples Practice

1) Write the first 2 multiples of:

a) 5 _____ b) 12 _____

c) 4 _____ d) 18 _____

2) Circle the numbers that are multiples of 7.

7 21 27 28 35 49

3) Circle the numbers that are factors of 20.

1 2 4 10 12 15 20

4) Circle the factors of 32.

1 2 4 8 10 12 14 16

5) I am a multiple of 13. I am also an even number less than 50. Who am I?

_____

6) List down <u>all</u> the factors of the given numbers.

a) 16 b) 42

Name: _____

Multiples and Factors

Answer the following questions

1. Write two multiples of 5 between 15 and 30.

_____

2. Circle the numbers that are multiples of 8.

8, 16, 20, 24, 30, 32, 36, 40

3. Write the first three multiples of:

a) 13 _____

b) 14 _____

c) 17 _____

4. Write the least common multiple of 2, 8, and 12.

_____

5. Write the least common multiple for each set of numbers.

a) 12 and 20 _____

b) 6 and 14 _____

c) 11 and 15 _____

6. List all the factors for each number. Is the number prime?

a) 87

b) 196

Greatest Common Factor

Find the GCF of 24 and 36.	24: 1, 2, 3, 4, 6, 8, **12**, 24 36: 1, 2, 3, 4, 6, 9, **12**, 18, 36	GCF of 24 and 36 is **12**.

No calculator! SHOW ALL WORK!

1. 18 and 54	2. 36 and 54
3. 24 and 60	4. 32 and 56
5. 100 and 75	6. 28 and 49
7. 35 and 50	8. 64 and 88

Least Common Multiple

Find the LCM of 8 and 12.	8: 8, 16, **24**, 32, 40, 48, 56, . . . 12: 12, **24**, 36, 48, 60, 72, . . .	LCM of 8 and 12 is **24**.

No calculator! SHOW ALL WORK!

1. 6 and 8	2. 4 and 6
3. 5 and 7	4. 12 and 18
5. 6 and 9	6. 12 and 9
7. 15 and 6	8. 14 and 4

Name : _____

Score : _____ Date : _____

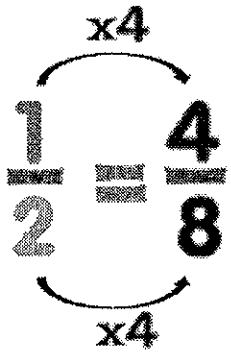
Comparing Fractions Worksheet

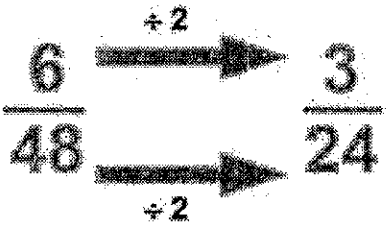
Compare the fractions and write >, <, or = in the box.

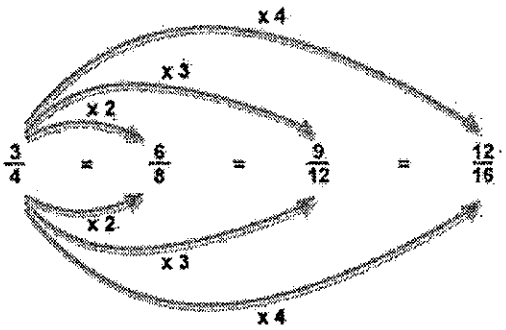
$\frac{6}{9} \square \frac{12}{18}$	$\frac{4}{10} \square \frac{6}{15}$	$\frac{3}{9} \square \frac{4}{16}$
$\frac{3}{6} \square \frac{5}{11}$	$\frac{3}{14} \square \frac{3}{21}$	$\frac{11}{22} \square \frac{10}{30}$
$\frac{1}{2} \square \frac{2}{8}$	$\frac{4}{8} \square \frac{8}{16}$	$\frac{10}{12} \square \frac{5}{7}$
$\frac{6}{10} \square \frac{4}{8}$	$\frac{3}{20} \square \frac{7}{10}$	$\frac{1}{2} \square \frac{9}{10}$
$\frac{5}{11} \square \frac{2}{20}$	$\frac{6}{12} \square \frac{3}{18}$	$\frac{3}{6} \square \frac{5}{8}$

Equivalent Fractions

To find an equivalent fraction multiply or divide the numerator and denominator by the same value.







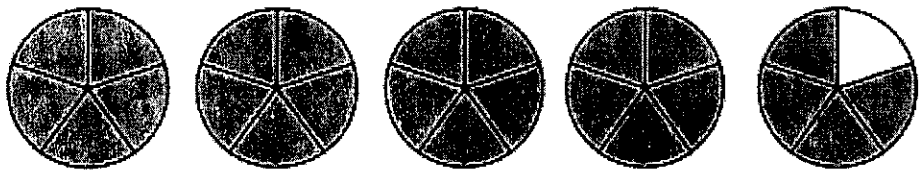
Name three equivalent fractions to the one given:

1. $\frac{4}{5}$	2. $\frac{10}{15}$
3. $\frac{1}{7}$	4. $\frac{16}{40}$
5. $\frac{12}{30}$	6. $\frac{6}{8}$
7. $\frac{2}{9}$	8. $\frac{14}{35}$
9. $\frac{18}{28}$	10. $\frac{80}{120}$

Name : _____

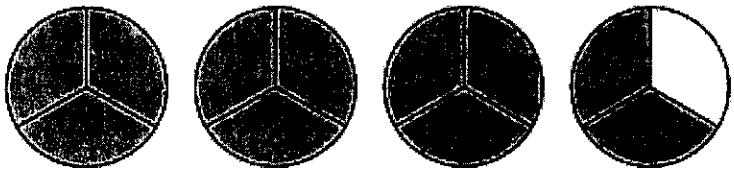
Identifying Improper Fractions

See the fraction diagrams and then find their corresponding mixed numbers and improper fractions. One is done for you.



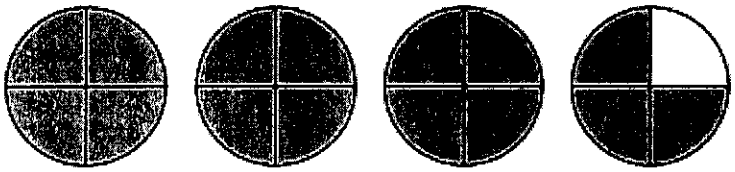
$= 4\frac{4}{5} = \frac{24}{5}$

1



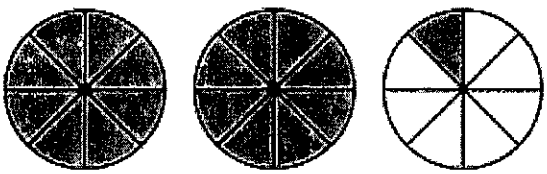
$= \frac{\quad}{\quad} = \frac{\quad}{\quad}$

2



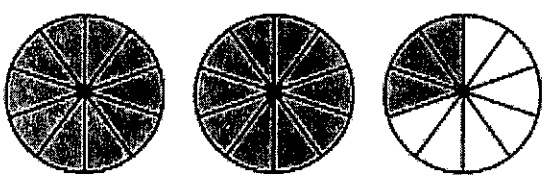
$= \frac{\quad}{\quad} = \frac{\quad}{\quad}$

3



$= \frac{\quad}{\quad} = \frac{\quad}{\quad}$

4



$= \frac{\quad}{\quad} = \frac{\quad}{\quad}$

5

Name: _____

Date: _____ Score: _____

Converting Improper Fractions

Convert the given improper fractions to mixed numbers.

1) $\frac{31}{5}$ = _____

2) $\frac{66}{7}$ = _____

3) $\frac{72}{7}$ = _____

4) $\frac{98}{9}$ = _____

5) $\frac{55}{8}$ = _____

6) $\frac{85}{7}$ = _____

7) $\frac{68}{10}$ = _____

8) $\frac{61}{3}$ = _____

9) $\frac{84}{5}$ = _____

10) $\frac{56}{9}$ = _____

11) $\frac{33}{4}$ = _____

12) $\frac{27}{4}$ = _____

13) $\frac{36}{7}$ = _____

14) $\frac{59}{8}$ = _____

15) $\frac{19}{4}$ = _____

16) $\frac{17}{2}$ =

17) $\frac{51}{8}$ =

18) $\frac{20}{7}$ =

Worksheet on Fractions

MATH MONKS

Convert the improper fractions to mixed numbers.

1. $\frac{11}{5} =$
2. $\frac{25}{4} =$
3. $\frac{22}{6} =$
4. $\frac{37}{7} =$
5. $\frac{13}{4} =$
6. $\frac{29}{5} =$
7. $\frac{35}{8} =$
8. $\frac{58}{9} =$
9. $\frac{43}{7} =$
10. $\frac{27}{10} =$
11. $\frac{38}{12} =$
12. $\frac{19}{5} =$

Complete the equivalent fractions.

1. $\frac{2}{5} = \frac{6}{\square}$
2. $\frac{4}{9} = \frac{16}{\square}$
3. $\frac{5}{11} = \frac{\square}{88}$
4. $\frac{3}{5} = \frac{12}{\square}$
5. $\frac{2}{5} = \frac{4}{\square}$
6. $\frac{6}{18} = \frac{\square}{3}$
7. $\frac{2}{8} = \frac{6}{\square}$
8. $\frac{\square}{6} = \frac{20}{24}$
9. $\frac{1}{\square} = \frac{6}{30}$

Multiply the whole number by the denominator and add the numerator.

Keep the same denominator.

Then add.

$4\frac{1}{3} = \frac{13}{3}$

Multiply.

Convert $\frac{20}{3}$ to a mixed number

Divide the numerator by the denominator

$20 \div 3 = 6$ plus 2 remainder

$\frac{20}{3} = 6\frac{2}{3}$

6 becomes the whole number
2 is the numerator of the fraction as shown
3 is the denominator

Convert to Mixed Number or Improper Fractions:

1. $3\frac{1}{2} =$	**2.** $\frac{15}{2} =$
3. $7\frac{2}{3} =$	**4.** $\frac{31}{6} =$
5. $8\frac{3}{5} =$	**6.** $\frac{74}{9} =$
7. $2\frac{7}{9} =$	**8.** $\frac{49}{11} =$
9. $12\frac{5}{10} =$	**10.** $\frac{122}{13} =$

Name : _____

Fractions Worksheet

Add the fractions and reduce to the lowest terms.

1. $\frac{5}{7} + \frac{3}{4} =$

2. $\frac{4}{3} + \frac{7}{9} =$

3. $\frac{4}{6} + \frac{1}{3} =$

4. $\frac{8}{9} + \frac{3}{8} =$

5. $\frac{3}{5} + \frac{2}{3} =$

6. $\frac{3}{6} + \frac{2}{9} =$

Compare each pair of fractions using <, >, or = sign.

1. $\frac{2}{3}$ ◯ $\frac{2}{4}$

2. $\frac{3}{5}$ ◯ $\frac{1}{2}$

3. $\frac{5}{6}$ ◯ $\frac{5}{9}$

4. $\frac{4}{9}$ ◯ $\frac{4}{5}$

5. $\frac{4}{9}$ ◯ $\frac{8}{18}$

6. $\frac{3}{7}$ ◯ $\frac{5}{14}$

Adding Fractions
Unlike Denominators

$\frac{6}{9} + \frac{2}{6}$	$\frac{1}{3} + \frac{3}{9}$	$\frac{8}{9} + \frac{5}{3}$	$\frac{3}{5} + \frac{3}{8}$
$\frac{2}{7} + \frac{4}{6}$	$\frac{9}{16} + \frac{3}{8}$	$\frac{2}{4} + \frac{7}{10}$	$\frac{6}{7} + \frac{6}{14}$
$\frac{1}{8} + \frac{9}{10}$	$\frac{7}{10} + \frac{11}{20}$	$\frac{2}{3} + \frac{4}{18}$	$\frac{8}{9} + \frac{4}{3}$
$\frac{2}{4} + \frac{1}{5}$	$\frac{5}{11} + \frac{1}{3}$	$\frac{6}{7} + \frac{3}{5}$	$\frac{5}{6} + \frac{1}{7}$

Diagnostic Assessment 4

Adding and Subtracting Fractions

Name: _____ Pretest Date: _____

Post Test Date: _____

Solve. Express each answer in simplest form.

1. $\frac{1}{3} + \frac{1}{3} =$ _____
2. $\frac{2}{6} + \frac{1}{3} =$ _____
3. $\frac{3}{5} - \frac{2}{5} =$ _____
4. $\frac{3}{5} - \frac{1}{10} =$ _____
5. $\frac{1}{4} + \frac{1}{5} =$ _____
6. $\frac{1}{2} - \frac{1}{3} =$ _____
7. $\frac{5}{8} - \frac{1}{2} =$ _____
8. $\frac{4}{7} + \frac{1}{3} =$ _____
9. $\frac{3}{8} - \frac{2}{6} =$ _____
10. $\frac{3}{8} - \frac{1}{8} =$ _____
11. $\frac{1}{2} + \frac{3}{10} =$ _____
12. $\frac{2}{6} + \frac{3}{6} =$ _____
13. $\frac{3}{9} + \frac{2}{5} =$ _____
14. $\frac{4}{6} - \frac{2}{4} =$ _____
15. $\frac{3}{7} - \frac{1}{14} =$ _____
16. $\frac{3}{4} - \frac{1}{4} =$ _____
17. $\frac{7}{9} - \frac{3}{4} =$ _____
18. $\frac{2}{8} + \frac{1}{4} =$ _____
19. $\frac{4}{7} + \frac{3}{7} =$ _____
20. $\frac{1}{5} + \frac{2}{3} =$ _____
21. $\frac{6}{9} - \frac{2}{9} =$ _____
22. $\frac{8}{9} - \frac{2}{3} =$ _____
23. $\frac{2}{3} + \frac{2}{9} =$ _____
24. $\frac{3}{5} + \frac{1}{5} =$ _____

Name : _____

Adding and Subtracting Fractions with Unlike Denominators

1. $\frac{4}{3} + \frac{2}{5} =$

2. $\frac{7}{10} - \frac{2}{5} =$

3. $\frac{5}{9} + \frac{2}{7} =$

4. $\frac{4}{8} - \frac{1}{4} =$

5. $\frac{3}{9} + \frac{1}{3} =$

6. $\frac{2}{5} + \frac{1}{10} =$

7. $\frac{4}{5} + \frac{9}{10} =$

8. $\frac{4}{6} - \frac{1}{3} =$

9. $\frac{3}{12} + \frac{2}{4} =$

10. $\frac{5}{12} - \frac{1}{6} =$

11. $\frac{2}{8} + \frac{3}{9} =$

12. $\frac{1}{4} - \frac{1}{8} =$

13. $\frac{6}{7} + \frac{2}{6} =$

14. $\frac{1}{3} - \frac{1}{7} =$

15. $\frac{7}{8} + \frac{4}{5} =$

Name : _____

Score : _____ Date : _____

Subtracting Fractions

Subtract the fractions and simplify if needed.

① $\frac{3}{4} - \frac{5}{7}$

② $\frac{5}{6} - \frac{1}{2}$

③ $\frac{5}{8} - \frac{1}{6}$

④ $\frac{4}{6} - \frac{1}{3}$

⑤ $\frac{2}{3} - \frac{1}{8}$

⑥ $\frac{3}{5} - \frac{2}{9}$

⑦ $\frac{7}{15} - \frac{1}{3}$

⑧ $\frac{9}{10} - \frac{3}{4}$

⑨ $\frac{11}{12} - \frac{3}{4}$

⑩ $\frac{7}{12} - \frac{3}{20}$

⑪ $\frac{7}{10} - \frac{1}{6}$

⑫ $\frac{2}{3} - \frac{1}{9}$

⑬ $\frac{4}{9} - \frac{1}{3}$

⑭ $\frac{7}{10} - \frac{2}{5}$

⑮ $\frac{6}{7} - \frac{9}{14}$

Add and Subtract the Fractions

1. $\frac{1}{12} + \frac{2}{15}$

2. $\frac{6}{7} - \frac{4}{14}$

3. $\frac{2}{3} + \frac{1}{4}$

4. $\frac{7}{21} - \frac{1}{14}$

5. $\frac{1}{6} + \frac{5}{18}$

6. $\frac{9}{12} - \frac{5}{24}$

7. $\frac{3}{5} + \frac{3}{7}$

8. $\frac{3}{8} - \frac{2}{18}$

9. $\frac{8}{15} + \frac{3}{10}$

10. $\frac{7}{8} - \frac{5}{7}$

11. $\frac{1}{6} + \frac{5}{12}$

12. $\frac{11}{12} - \frac{3}{8}$

13. $\frac{3}{4} + \frac{1}{5}$

14. $\frac{5}{6} - \frac{2}{15}$

Fractions – Adding and Subtracting

$\frac{3}{4}+\frac{1}{3}=$

$\frac{9}{12}+\frac{4}{12}=$

$\frac{13}{12}=1\frac{1}{12}$

If the denominators are different, find the least common multiple of the two numbers and convert both fractions to the matching common denominator.

$\frac{5}{6}-\frac{3}{9}=$

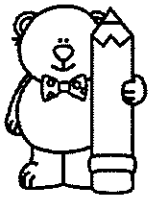
$\frac{15}{18}-\frac{6}{18}=$

$\frac{11}{18}$

NO CALCULATOR! SHOW ALL WORK!

1. $\frac{2}{3}+\frac{1}{5}=$	2. $\frac{1}{7}+\frac{1}{3}=$	3. $\frac{2}{10}+\frac{1}{2}=$
4. $\frac{7}{8}-\frac{1}{2}=$	5. $\frac{5}{6}-\frac{2}{3}=$	6. $\frac{5}{9}-\frac{2}{4}=$
7. $\frac{7}{12}+\frac{2}{9}=$	8. $\frac{14}{15}+\frac{3}{5}=$	9. $\frac{9}{16}+\frac{5}{24}=$
10. $\frac{12}{16}-\frac{1}{4}=$	11. $\frac{27}{33}-\frac{5}{11}=$	12. $\frac{15}{18}-\frac{4}{9}=$

Name : _____



Adding and Subtracting Unlike Fractions

1 $\frac{7}{10} + \frac{3}{5}$	2 $\frac{5}{3} - \frac{2}{9}$	3 $\frac{7}{15} + \frac{4}{5}$
4 $\frac{4}{3} - \frac{1}{2}$	5 $\frac{3}{4} + \frac{7}{8}$	6 $\frac{8}{9} - \frac{2}{12}$
7 $\frac{4}{9} + \frac{5}{12}$	8 $\frac{1}{2} - \frac{1}{8}$	9 $\frac{1}{5} + \frac{4}{6}$
10 $\frac{1}{6} - \frac{3}{4}$	11 $\frac{6}{8} + \frac{4}{9}$	12 $\frac{3}{4} - \frac{1}{3}$

Adding Mixed Fractions

Solve each question.

① $4\frac{2}{3} + 4\frac{2}{5} =$

② $8\frac{1}{4} + 9\frac{1}{2} =$

③ $1\frac{1}{8} + 2\frac{1}{4} =$

④ $7\frac{3}{5} + 2\frac{3}{5} =$

⑤ $3\frac{1}{6} + 12\frac{2}{9} =$

⑥ $6\frac{1}{3} + 5\frac{1}{6} =$

⑦ $5\frac{2}{7} + 3\frac{1}{9} =$

⑧ $7\frac{1}{4} + 3\frac{1}{3} =$

⑨ $3\frac{7}{9} + 2\frac{1}{4} =$

⑩ $3\frac{1}{8} + 6\frac{1}{2} =$

Mixed Fractions Worksheet

Add the following mixed numbers. Show your work.

1. $8\frac{1}{3} + 6\frac{1}{5} =$
2. $1\frac{3}{7} + 2\frac{5}{8} =$
3. $1\frac{1}{3} + 2\frac{1}{6} =$
4. $7\frac{1}{5} + 3\frac{2}{3} =$
3. $5\frac{3}{5} + 6\frac{3}{8} =$
4. $4\frac{2}{7} + 3\frac{2}{11} =$

Convert the following mixed numbers to improper fractions.

1. $9\frac{2}{3} =$	2. $5\frac{3}{10} =$
3. $6\frac{2}{8} =$	4. $3\frac{1}{4} =$
5. $5\frac{3}{4} =$	5. $9\frac{1}{6} =$

Name : _____

Subtracting Fractions from Whole Numbers

① $6 - \frac{10}{16} =$

② $3 - \frac{4}{19} =$

③ $4 - \frac{11}{15} =$

④ $7 - \frac{9}{13} =$

⑤ $11 - \frac{15}{18} =$

⑥ $8 - \frac{9}{15} =$

⑦ $3 - \frac{9}{14} =$

⑧ $10 - \frac{7}{11} =$

⑨ $5 - \frac{17}{20} =$

⑩ $8 - \frac{7}{12} =$

⑪ $2 - \frac{9}{13} =$

⑫ $6 - \frac{7}{10} =$

⑬ $7 - \frac{6}{17} =$

⑭ $9 - \frac{9}{15} =$

Name : _____

Subtracting Mixed Numbers With Regrouping

One is solved for you. Follow the method to subtract the given mixed numbers.

$$\begin{array}{r} 5\frac{1}{7} \\ -\ 1\frac{3}{7} \\ \hline \end{array} \qquad \begin{array}{r} 7\frac{1}{4} \\ -\ 4\frac{2}{4} \\ \hline \end{array} \qquad \begin{array}{r} 8\frac{2}{5} \\ -\ 2\frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 3\frac{4}{8} \\ -\ 1\frac{7}{8} \\ \hline \end{array} \qquad \begin{array}{r} 9\frac{1}{9} \\ -\ 4\frac{7}{9} \\ \hline \end{array} \qquad \begin{array}{r} 4\frac{1}{8} \\ -\ 2\frac{2}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 6\frac{3}{6} \\ -\ 1\frac{5}{6} \\ \hline \end{array} \qquad \begin{array}{r} 7\frac{1}{5} \\ -\ 2\frac{2}{5} \\ \hline \end{array} \qquad \begin{array}{r} 8\frac{2}{4} \\ -\ 4\frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 6\frac{3}{5} \\ -\ 3\frac{4}{5} \\ \hline \end{array} \qquad \begin{array}{r} 4\frac{3}{8} \\ -\ 1\frac{5}{8} \\ \hline \end{array} \qquad \begin{array}{r} 5\frac{9}{11} \\ -\ 3\frac{10}{11} \\ \hline \end{array}$$

Name : _____

Subtract the Unlike Mixed Numbers By Regrouping

1) $9\frac{1}{6} - 5\frac{1}{2}$

2) $4\frac{1}{9} - 2\frac{2}{3}$

3) $3\frac{3}{4} - 1\frac{7}{10}$

4) $8\frac{5}{6} - 1\frac{2}{3}$

5) $9\frac{2}{10} - 3\frac{6}{15}$

6) $6\frac{2}{3} - 1\frac{5}{4}$

7) $6\frac{2}{5} - 3\frac{3}{7}$

8) $14\frac{6}{13} - 12\frac{1}{26}$

9) $19\frac{6}{11} - 11\frac{7}{22}$

10) $4\frac{3}{12} - 2\frac{6}{18}$

11) $9\frac{3}{14} - 3\frac{5}{21}$

12) $8\frac{6}{11} - 5\frac{4}{6}$

Name : _____

Score : _____ Date : _____

Subtracting Mixed Fractions

Find the difference. Write your answers in lowest terms.

1. $3\frac{1}{3} - 1\frac{3}{5}$
2. $7\frac{1}{2} - 3\frac{2}{5}$
3. $5\frac{3}{8} - 3\frac{1}{4}$
4. $2\frac{3}{4} - 1\frac{1}{8}$
5. $8\frac{2}{5} - 3\frac{1}{4}$
6. $2\frac{1}{2} - 1\frac{1}{4}$
7. $9\frac{2}{5} - 2\frac{1}{8}$
8. $6\frac{4}{7} - 3\frac{2}{7}$
9. $6\frac{3}{7} - 2\frac{1}{3}$
10. $9\frac{5}{6} - 8\frac{3}{4}$
11. $7\frac{8}{9} - 3\frac{5}{9}$
12. $3\frac{3}{7} - 2\frac{2}{9}$

Name : _____

Adding and Subtracting Mixed Fractions

Solve the following.

1. $7\frac{1}{2} + 1\frac{7}{8} =$

2. $9\frac{1}{6} - 4\frac{1}{2} =$

3. $6\frac{1}{3} + 2\frac{5}{6} =$

4. $4\frac{4}{5} - 3\frac{1}{6} =$

5. $2\frac{1}{2} + 3\frac{1}{4} =$

6. $4\frac{4}{7} - 2\frac{2}{5} =$

7. $3\frac{7}{12} + 2\frac{1}{8} =$

8. $5\frac{1}{5} - 3\frac{5}{7} =$

9. $4\frac{2}{5} + 3\frac{5}{6} =$

10. $3\frac{1}{10} - 1\frac{6}{8} =$

11. $6\frac{7}{8} + 9\frac{3}{9} =$

12. $7\frac{1}{2} - 4\frac{7}{8} =$

Name : _____

Score : _____ Date : _____

Working with Fractions

Multiply and write your answers in the simplest form.

[1] $\frac{2}{9} \times \frac{6}{3} =$

[2] $\frac{3}{7} \times \frac{14}{6} =$

[3] $\frac{2}{5} \times \frac{10}{14} =$

[4] $\frac{8}{9} \times \frac{18}{12} =$

Convert the following improper fractions to mixed numbers.

[1] $\frac{50}{7} =$

[2] $\frac{31}{5} =$

[3] $\frac{83}{9} =$

[4] $\frac{19}{4} =$

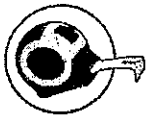
Compare the following with <, >, or = sign.

[1] $\frac{3}{5}$ ◯ $\frac{1}{2}$

[2] $\frac{5}{8}$ ◯ $\frac{8}{16}$

[3] $\frac{1}{3}$ ◯ $\frac{3}{9}$

[4] $\frac{1}{8}$ ◯ $\frac{3}{4}$



Diagnostic Assessment 5

Multiplying and Dividing Fractions

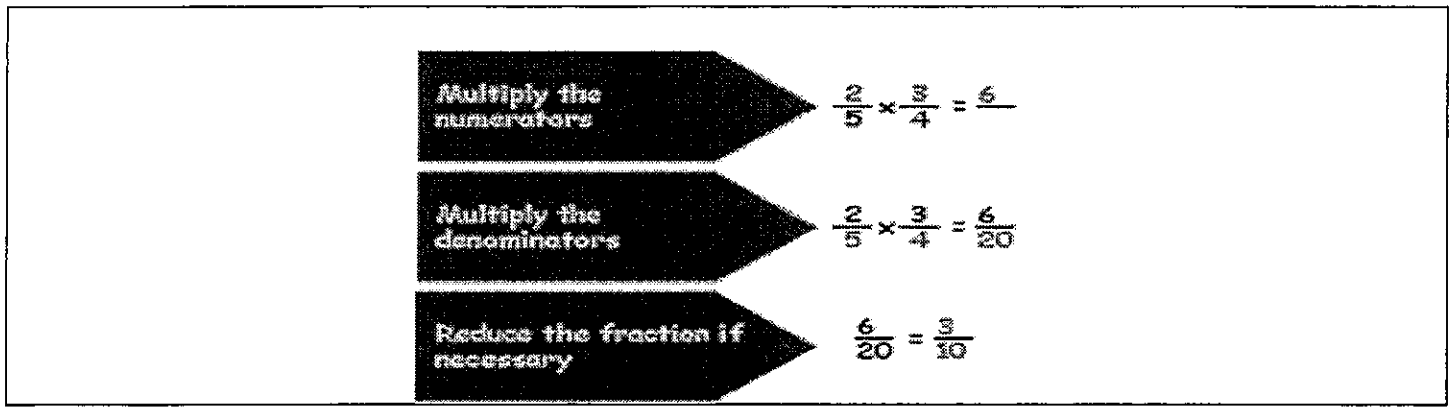
Name: _____ Pretest Date: _____

Post Test Date: _____

Solve. Express each answer in simplest form.

1. $\frac{1}{3} \times 6 =$ _____
2. $\frac{1}{4} \times \frac{1}{3} =$ _____
3. $6 \times \frac{1}{2} =$ _____
4. $\frac{1}{2} \div 2 =$ _____
5. $3 \div \frac{1}{3} =$ _____
6. $7 \times \frac{1}{7} =$ _____
7. $\frac{2}{3} \div 2 =$ _____
8. $8 \div \frac{1}{4} =$ _____
9. $\frac{3}{5} \div 2 =$ _____
10. $8 \times \frac{1}{4} =$ _____
11. $\frac{1}{4} \times \frac{3}{5} =$ _____
12. $\frac{1}{2} \times 8 =$ _____
13. $2 \div \frac{1}{4} =$ _____
14. $\frac{3}{5} \times \frac{2}{3} =$ _____
15. $\frac{2}{4} \div 4 =$ _____
16. $9 \times \frac{1}{3} =$ _____
17. $\frac{1}{4} \times 12 =$ _____
18. $\frac{1}{5} \times \frac{1}{2} =$ _____
19. $\frac{1}{5} \times 10 =$ _____
20. $8 \div \frac{1}{6} =$ _____

Fractions – Multiplying



NO CALCULATOR! SHOW ALL WORK!

1. $\frac{1}{3} x \frac{1}{5} =$	2. $\frac{2}{7} x \frac{2}{5} =$	3. $\frac{4}{9} x \frac{1}{2} =$
4. $\frac{3}{8} x \frac{3}{4} =$	5. $\frac{9}{10} x \frac{1}{9} =$	6. $\frac{7}{12} x \frac{2}{5} =$
7. $\frac{6}{11} x \frac{2}{4} =$	8. $\frac{5}{6} x \frac{2}{9} =$	9. $\frac{12}{20} x \frac{3}{7} =$
10. $\frac{5}{13} x \frac{4}{6} =$	11. $\frac{15}{25} x \frac{5}{15} =$	12. $\frac{6}{10} x \frac{3}{9} =$

Name : _____

Multiplying Improper Fractions

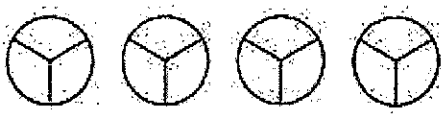
Express your answer in mixed number.

① $\frac{5}{2} \times \frac{14}{6} =$	② $\frac{38}{12} \times \frac{10}{3} =$
③ $\frac{18}{10} \times \frac{7}{2} =$	④ $\frac{47}{12} \times \frac{35}{12} =$
⑤ $\frac{20}{8} \times \frac{17}{10} =$	⑥ $\frac{46}{12} \times \frac{14}{4} =$
⑦ $\frac{35}{10} \times \frac{8}{3} =$	⑧ $\frac{11}{3} \times \frac{5}{4} =$
⑨ $\frac{16}{5} \times \frac{5}{12} =$	⑩ $\frac{44}{12} \times \frac{11}{3} =$
⑪ $\frac{21}{12} \times \frac{19}{12} =$	⑫ $\frac{5}{3} \times \frac{34}{9} =$
⑬ $\frac{11}{3} \times \frac{26}{12} =$	⑭ $\frac{3}{2} \times \frac{5}{2} =$
⑮ $\frac{14}{4} \times \frac{5}{2} =$	⑯ $\frac{11}{10} \times \frac{7}{5} =$

Name: _____

Dividing Fractions

a. How many thirds are in 4?



$4 \div \frac{1}{3} =$

b. How many fourths are in 5?

$5 \div \frac{1}{4} =$

Draw pictures to find each quotient.

c. $3 \div \frac{1}{3} =$

d. $2 \div \frac{1}{4} =$

e. $5 \div \frac{1}{2} =$

f. $4 \div \frac{1}{4} =$

g. $3 \div \frac{1}{5} =$

h. $2 \div \frac{1}{8} =$

i. A long submarine sandwich is cut into thirds to make smaller sandwiches. How many long subs are needed to make 12 small sandwiches? _____
Draw a picture to show how you found your answer.

Dividing Unit Fractions by Whole Numbers

1. $\frac{1}{4} \div 7$
2. $\frac{1}{5} \div 5$
3. $\frac{1}{6} \div 4$
4. $\frac{1}{8} \div 9$
5. $\frac{1}{9} \div 6$
6. $\frac{1}{14} \div 4$
7. $\frac{1}{7} \div 9$
8. $\frac{1}{3} \div 12$
9. $\frac{1}{6} \div 7$
10. $\frac{1}{3} \div 16$
11. $\frac{1}{9} \div 9$
12. $\frac{1}{16} \div 5$
13. $\frac{1}{12} \div 5$
14. $\frac{1}{18} \div 4$
15. $\frac{1}{20} \div 4$
16. $\frac{1}{17} \div 2$
17. $\frac{1}{15} \div 6$
18. $\frac{1}{13} \div 2$
19. $\frac{1}{11} \div 2$
20. $\frac{1}{4} \div 17$

Name : _____

Place Value

Write down the place value of the underlined digit in each of the numbers below.

1. 42.6̲26 _____
2. 7.83̲2 _____
3. 2̲3.955 _____
4. 646.1̲23 _____
5. 73̲1.638 _____
6. 2674̲.659 _____
7. 32671.238̲ _____
8. 358.1̲2 _____
9. 2̲5.125 _____

Fill in the missing numbers.

10. $1 + \_\_\_\_ + 0.08 = 1.28$
11. $5 + 0.7 + 0.04 + 0.004 = \_\_\_\_$
12. $0.7 + 0.06 + 5 = \_\_\_\_$
13. $\_\_\_\_ = 9 + 0.3 + 0.06 + 0.001$
14. $6.38 = \_\_\_\_ + 0.3 + 0.08$
15. $\_\_\_\_ = 10 + 2 + 0.7 + 0.07 + 0.004$
16. $6.37 = 6 + \_\_\_\_ + 0.07$
17. $4 + 20 + 600 + \_\_\_\_ + 20{,}000 = 22624$

Write in the standard form.

18. $600{,}000 + 50{,}000 + 700 + 60 + 3 =$ _____
19. $70{,}000 + 8{,}000 + 400 + 80 =$ _____
20. $20{,}000 + 4{,}000 + 600 + 80 + 3 =$ _____

Name : _____

Score : _____ Date : _____

Place Value Worksheet

Find the place value of the underlined digit.

① 43.<u>4</u>56	② 4<u>4</u>.507	③ <u>3</u>48.68	④ 4.<u>0</u>67
_____	_____	_____	_____
⑤ 53<u>2</u>.7	⑥ 1<u>2</u>30.24	⑦ 3.<u>3</u>40	⑧ <u>3</u>4.124
_____	_____	_____	_____
⑨ <u>2</u>764	⑩ 3<u>4</u>.504	⑪ 26.<u>3</u>5	⑫ 2<u>0</u>.013
_____	_____	_____	_____
⑬ <u>4</u>32.8	⑭ 6.0<u>2</u>7	⑮ 10.<u>0</u>12	⑯ 9<u>3</u>.567
_____	_____	_____	_____

Answer the following questions.

⑰ Write the place value of 8 in the number 28.307

_____

⑱ In the number 879.63, what is the place value of 6?

_____

⑲ What is the place value of 1 in the number 103.672?

_____

⑳ Write the place value of 0 in the number 0.346

_____

Name: Date:

Decimal Place Value WORKSHEET

1) Write each numbers in expanded form.

a) 673.12 =

b) 866.81 =

c) 244.37 =

d) 130.78 =

e) 145.69 =

f) 429.67 =

2) Write each numbers in standard form.

a) _____ = (7 x 1000) + (2 x 100) + (5 x 10) + (3 x 1) + (9 x 0.1) + (7 x 0.01)

b) _____ = (4 x 1000) + (0 x 100) + (0 x 10) + (1 x 1) + (3 x 0.1) + (9 x 0.01)

c) _____ = (5 x 100) + (1 x 10) + (3 x 1) + (2 x 0.1) + (0 x 0.01) + (1 x 0.001)

d) _____ = (3 x 1000) + (9 x 100) + (7 x 10) + (8 x 1) + (7 x 0.1) + (7 x 0.01)

3) Find the missing numbers.

a) 0.3 + 0.008 = _____

b) 4 + 0.067 + _____ = 4.167

c) _____ + 8 + 0.8 = 8.87

d) _____ = 5 + 0.007

e) 9.327 = _____ + 9 + 0.007

f) 8.392 = 8.002 + _____

Name : _____

Score : _____

Decimal Place Value Worksheet

Write in expanded form.

[a] 63.87 _____

[b] 3.04 _____

[c] 8.7 _____

[d] 0.87 _____

[e] 380.17 _____

Write in standard form.

[a] $(2 \times 100) + (9 \times 10) + (3 \times 1)$ _____

[b] $(8 \times 1000) + (4 \times 10) + (3 \times 1) + \left(2 \times \frac{1}{100}\right)$ _____

[c] $(6 \times 100) + (7 \times 10) + (4 \times 1) + \left(6 \times \frac{1}{1000}\right)$ _____

[d] $(6 \times 1000) + \left(3 \times \frac{1}{10}\right)$ _____

[e] $(5 \times 1000) + (9 \times 100) + (3 \times 1) + \left(3 \times \frac{1}{10}\right)$ _____

Name : _____

Score : _____ Date : _____

Comparing Decimals Worksheet

Compare the pair of decimals and choose the correct sign among > , < , or =

4.2 ☐ 3.9	0.04 ☐ 0.8	0.17 ☐ 0.9
6.72 ☐ 6.69	1.19 ☐ 1.21	2.22 ☐ 2.02
3.67 ☐ 3.68	9.99 ☐ 9.99	0.02 ☐ 0.20
8.21 ☐ 0.821	4.4 ☐ 0.44	8.39 ☐ 8.31
15.66 ☐ 14.97	7.1 ☐ 75.1	0.3 ☐ 0.39
6.389 ☐ 6.379	9.576 ☐ 9.50	8.476 ☐ 8.806
6.66 ☐ 66.6	0.05 ☐ 0.005	0.001 ☐ 0.02

Name : _____

Score : _____ Date : _____

Comparing and Ordering Decimals

Arrange the following sets of decimals in ascending order.

1) 7.5 17.5 0.75 0.075 7.56 75.6

_____ _____ _____ _____ _____ _____

2) 0.85 8.5 118.5 0.085 11.85 1.185

_____ _____ _____ _____ _____ _____

3) 4.43 44.3 5.57 55.7 0.443 0.043

_____ _____ _____ _____ _____ _____

Arrange the following sets of decimals in descending order.

1) 2.4 3.7 2.9 2.93 0.037 0.29

_____ _____ _____ _____ _____ _____

2) 4.276 42.7 4.38 4.3 4.270 0.43

_____ _____ _____ _____ _____ _____

3) 0.17 0.07 7.07 7.17 0.017 0.707

_____ _____ _____ _____ _____ _____

Name : _____

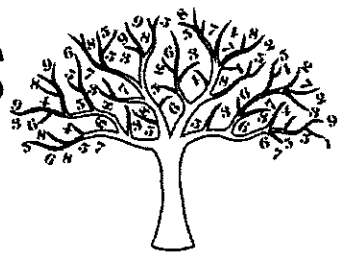
Score : _____

Ordering Decimals Worksheet

Order the list of decimals from largest to smallest.

①	4.677	3.867	2.7	3.67	3.90	4.17
	_____	_____	_____	_____	_____	_____
②	0.839	0.642	0.2	8.39	83.9	0.711
	_____	_____	_____	_____	_____	_____
③	6.6	6.02	6.67	66.7	0.67	0.067
	_____	_____	_____	_____	_____	_____
④	7.38	0.738	73.8	69.3	693.7	738.7
	_____	_____	_____	_____	_____	_____
⑤	0.09	0.9	0.99	9.9	9.1	99.1
	_____	_____	_____	_____	_____	_____
⑥	11.7	1.7	117.7	0.117	0.017	0.0017
	_____	_____	_____	_____	_____	_____
⑦	102.9	10.2	9.2	102.7	0.102	0.01
	_____	_____	_____	_____	_____	_____

Rounding Decimals Worksheet



ROUND EACH NUMBER TO THE NEAREST TENTH.

1) 8.326 =
2) 6.998 =
3) 9.83 =
4) 51.711 =
5) 687.817 =
6) 19.07 =
7) 432.080 =
8) 483.37 =
9) 59.42 =

ROUND EACH NUMBER TO THE NEAREST HUNDREDTH.

1) 84.744 =
2) 6.883 =
3) 308.817 =
4) 66.663 =
5) 399.839 =
6) 409.723 =
7) 7.450 =
8) 117.855 =
9) 66.935 =

ROUND EACH NUMBER TO THE NEAREST THOUSANDTH.

1) 5.0016 =
2) 6.1087 =
3) 56.3008 =
4) 106.7128 =
5) 4.6687 =
6) 49.9376 =
7) 856.3981 =
8) 69.6009 =
9) 73.7896 =

Name: Date:

Rounding Decimals Worksheet

Round to the nearest whole number.

1) 1.44 =
2) 6.234 =
3) 36.87 =
4) 19.67 =
5) 91.921 =
6) 15.014 =

Round to the nearest tenth.

1) 45.637 =
2) 9.012 =
3) 15.623 =
4) 9.66 =
5) 91.921 =
6) 593.30 =

Round to the nearest hundredth.

1) 3.215 =
2) 44.444 =
3) 0.009 =
4) 2.3838 =
5) 8.005 =
6) 16.336 =

Round to the nearest thousandth.

1) 0.0091 =
2) 2.9999 =
3) 0.1335 =
4) 60.618 =
5) 8.1234 =
6) 0.196 =

Rounding Decimals

Round each decimal number to their nearest whole number.

2.94 =	34.33 =
44.9 =	17.723 =
59.04 =	119.6 =
39.672 =	88.667 =
68.841 =	0.993 =
1.137 =	80.82 =
39.762 =	72.93 =
8.72 =	6.6794 =
3.898 =	2.93 =

Name : Date :

Converting Fraction to Decimal Number

Change the given fractions into decimal numbers.

$\frac{4}{6}$	$\frac{8}{3}$	$\frac{11}{5}$
$\frac{5}{3}$	$\frac{25}{4}$	$\frac{1}{5}$
$\frac{3}{4}$	$\frac{12}{5}$	$\frac{16}{22}$
$\frac{2}{15}$	$\frac{9}{7}$	$\frac{4}{5}$
$\frac{18}{7}$	$\frac{24}{11}$	$\frac{33}{10}$
$\frac{1}{8}$	$\frac{8}{15}$	$\frac{13}{10}$

Name : _____ Date : _____

Turning Fractions into Decimals

Convert the given fractions into decimals.

1. $\frac{11}{15} =$ ____
2. $\frac{2}{15} =$ ____
3. $\frac{16}{12} =$ ____
4. $\frac{5}{6} =$ ____
5. $\frac{15}{10} =$ ____
6. $\frac{2}{23} =$ ____
7. $\frac{12}{25} =$ ____
8. $\frac{23}{27} =$ ____
9. $\frac{4}{17} =$ ____
10. $\frac{36}{21} =$ ____
11. $\frac{120}{11} =$ ____
12. $\frac{31}{17} =$ ____
13. $\frac{39}{25} =$ ____
14. $\frac{15}{19} =$ ____
15. $\frac{29}{19} =$ ____

Name : _____

Improper Fractions to Decimals

Convert the given fractions to decimals. Round your answer to hundreths.

1. $\frac{44}{12}$ = _____
2. $\frac{18}{8}$ = _____
3. $\frac{24}{9}$ = _____
4. $\frac{36}{16}$ = _____
5. $\frac{7}{2}$ = _____
6. $\frac{29}{3}$ = _____
7. $\frac{16}{9}$ = _____
8. $\frac{44}{20}$ = _____
9. $\frac{32}{22}$ = _____
10. $\frac{45}{18}$ = _____
11. $\frac{20}{11}$ = _____
12. $\frac{66}{18}$ = _____
13. $\frac{19}{4}$ = _____
14. $\frac{22}{12}$ = _____
15. $\frac{52}{18}$ = _____
16. $\frac{38}{20}$ = _____
17. $\frac{78}{42}$ = _____
18. $\frac{54}{28}$ = _____

Name:

Converting Decimal to Fraction

① 0.78 =	② 0.5 =
③ 0.99 =	④ 0.44 =
⑤ 0.04 =	⑥ 0.11 =
⑦ 0.1 =	⑧ 0.59 =
⑨ 0.6 =	⑩ 0.81 =
⑪ 0.452 =	⑫ 1.37 =
⑬ 9.29 =	⑭ 3.4 =
⑮ 2.75 =	⑯ 15.27 =

Name _____ Date _____

Adding & Subtracting Decimals Worksheet

Solve each problem

1	90.6 - 28.3	2	93.3 + 29.2	3	72.3 - 12.9
4	63.44 - 59.688	5	90.0 + 83.3	6	54.3 + 18.8
7	99.3 - 88.1	8	5.37 + 2.84	9	0.52 + 8.33
10	3.76 - 1.91	11	2.00 - 0.17	12	5.24 + 3.32

Name .....

Date ..... Score .....

Adding and Subtracting Decimals

Solve to find the answer.

22.774 + 8.874 =	99.37 + 88.42 =
66.344 - 33.122 =	98.145 + 24.21 =
9.8 - 0.8 =	5.7 + 5.9 =
19.19 -17.17 =	122.37 + 23.48 =
9.3 - 4.9 =	257.17 - 253.59 =
8.7 + 6.63 =	69.67 - 67.69 =
0.17 - 0.09 =	8.27 + 18.97 =
14.33 - 2.17 =	637.9 - 216.6 =

Name .....

Date ..... Score .....

Adding or Subtracting Decimals to Thousandths

Calculate each sum or difference.

① 3.897 + 1.127 =

② 9.387 - 1.819 =

③ 1.944 - 1.174 =

④ 5.234 + 4.199 =

⑤ 3.092 - 1.308 =

⑥ 4.448 - 3.432 =

⑦ 9.423 + 3.231 =

⑧ 4.982 - 2.999 =

⑨ 7.224 + 6.331 =

⑩ 6.104 - 5.503 =

⑪ 5.204 + 5.199 =

⑫ 6.290 + 8.980 =

⑬ 0.987 + 3.442 =

⑭ 7.434 + 6.177 =

⑮ 3.997 - 2.813 =

⑯ 3.143 - 0.198 =

Decimals – Adding and Subtracting

Rules:

1) Line up decimal points, if a number does not have a decimal point it is a whole number with the decimal point at the end.
2) Annex zeros to hold place.
3) Add or subtract vertically.
4) Bring down the decimal point.

$4.1 + 3 + 5.61 + 21$

$$\begin{array}{r} 4.10 \\ 3.00 \\ 5.61 \end{array}$$

$16 - 7.498$

$$\begin{array}{r} 16.000 \\ -\ 7.498 \\ \hline 8.502 \end{array}$$

NO CALCULATOR! SHOW ALL WORK!

1. $42.78 + 19.56$	2. $0.0997 + 1.4$	3. $6.29 + 5$
4. $0.663 + 1.58$	5. $\$62.74 + \$1.75 + \$12$	6. $0.0674 + 0.12 + 0.0098$
7. $40.75 - 17.46$	8. $0.95 - 0.68$	9. $6 - 3.8$
10. $\$60 - \$31.74$	11. $\$12.36 - \$8.75$	12. $21.007 - 4.678$

Name : _____

Score : _____ Date : _____

Multiplying Decimals by 10, 100, and 1000

Find the product.

① $6.14 \times 10 =$ _____

② $0.480 \times 100 =$ _____

③ $0.087 \times 1000 =$ _____

④ $0.087 \times 10 =$ _____

⑤ $0.181 \times 10 =$ _____

⑥ $4.8 \times 100 =$ _____

⑦ $84.8 \times 100 =$ _____

⑧ $0.9 \times 10 =$ _____

⑨ $0.330 \times 1000 =$ _____

⑩ $0.128 \times 100 =$ _____

⑪ $0.181 \times 10 =$ _____

⑫ $0.687 \times 1000 =$ _____

⑬ $1.18 \times 100 =$ _____

⑭ $5.10 \times 100 =$ _____

⑮ $0.02 \times 100 =$ _____

⑯ $1.88 \times 1000 =$ _____

Decimals – Multiplying and Dividing

Rules:

Multiplying

1) Line up digits, starting on the right.
2) Multiply
3) Place the decimal point in the answer by starting at the right and moving a number of places equal to the sum of the decimal places in both numbers multiplied.

(6.432)(4.15)

6.432 (3 decimal places)
x 4.15 (2 decimal places)
32160
64320
2572800
26.69280 (5 decimal places)

Dividing

1) If the divisor is not a whole number, move the decimal point To the right to make it a whole number and move the decimal Point in the dividend the same number of places.
2) Divide.
3) Bring the decimal point up.

27.216 ÷ 4.8

```
   5.67
48.)272.16
  -240
   321
  -288
    336
   -336
```

NO CALCULATOR! SHOW ALL WORK!

1. 5.4 x 0.07	2. 5.9 x 1.2
3. 69.3 x 0.15	4. 3.96 x 3.3

Name: _____

Dividing Decimals by Whole Numbers

Find the quotient.

1. $2\overline{)0.88}$

2. $9\overline{)66.7}$

3. $9\overline{)0.467}$

4. $8\overline{)33.9}$

5. $11\overline{)121.30}$

6. $32\overline{)168.98}$

7. $15\overline{)275.15}$

8. $92\overline{)280.92}$

9. $50\overline{)1050.256}$

Name : _____

Score : _____

Metric to Metric Conversions

1. 3680 g = _____ kg
2. 0.67 kg = _____ g
3. 101 cm = _____ m
4. 8.08 L = _____ mL
5. 158 mm = _____ cm
6. 7.85 km = _____ m
7. 13570 mL = _____ L
8. 14.9 cm = _____ mm
9. 608 m = _____ km
10. 30.5 m = _____ cm
11. 2750 cm = _____ m
12. 5.68 km = _____ m
13. 800 g = _____ kg
14. 4.82 L = _____ mL
15. 8700 mL = _____ L
16. 0.09 kg = _____ g
17. 1520 mm = _____ cm
18. 12 cm = _____ mm

Name : _____

Metric System Conversion Worksheet

Convert the following.

❶ 591m = _____ km

❷ _____ L = 6720mL

❸ _____ mm = 13.3cm

❹ 0.49m = _____ cm

❺ 2700g = _____ kg

❻ 7.73km = _____ m

❼ _____ m = 923cm

❽ 149mm = _____ cm

❾ 27.15L = _____ mL

❿ _____ g = 3.17kg

Compare using <, >, or = for the following.

❶ 1L ☐ 960mL

❷ 1000m ☐ 1km

❸ 920m ☐ 0.85km

❹ 1200g ☐ 12kg

❺ 4.5cm ☐ 47mm

❻ 3.7m ☐ 370cm

Name: _____

Score: _____ Date: _____

Metric System Conversion Practice

Convert the given quantities as directed.

1) 4.9 L = _____ mL

2) 5.75 kg = _____ g

3) 320 mm = _____ cm

4) _____ km = 1350 m

5) _____ m = 147 cm

6) 2850 mL = _____ L

7) 530 g = _____ kg

8) 70 cm = _____ mm

9) 6.8 m = _____ cm

10) 1.15 km = _____ m

11) 18600 mL = _____ L

12) _____ g = 10.5 kg

13) _____ mm = 6 cm

14) _____ m = 4.45 km

15) 12 cm = _____ m

16) 3.43 L = _____ mL

17) 1650 g = _____ kg

18) 17.5 cm = _____ mm

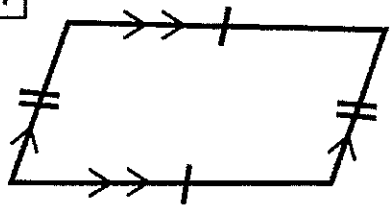
Name : _____

Score : _____ Date : _____

Types of Polygon Worksheet

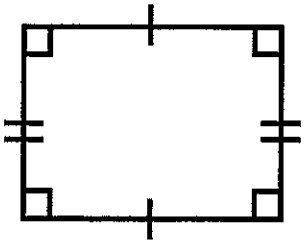
Identify the type of each regular polygon

1



_____

2



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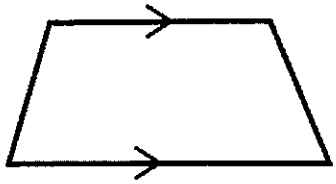
3



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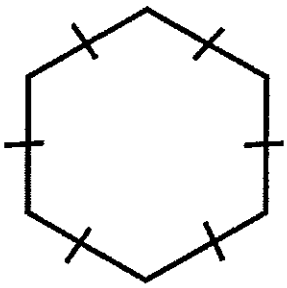
4



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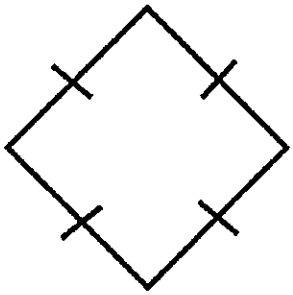
5



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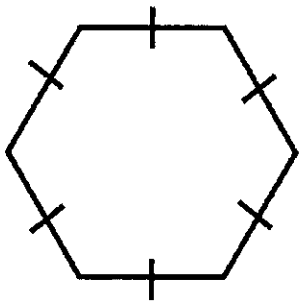
6



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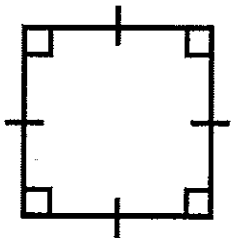
7



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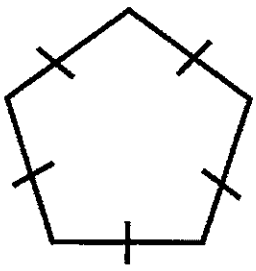
8



_____

Name : _____

Score : _____ Date : _____

Quadrilateral Properties Chart Worksheet

Property Chart	Four congruent sides	Four right angles	Diagonals are congruent	Diagonals bisect each other	Opposite sides parallel	Opposite sides congruent	Two pairs of Opposite sides congruent
Rectangle							
Square							
Rhombus							
Trapezoid							
Isosceles Trapezoid							
Kite							

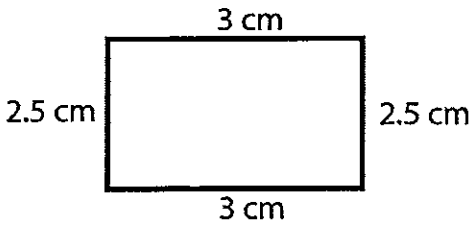
Name : _____

Score : _____ Date : _____

Perimeter of Quadrilateral Worksheet

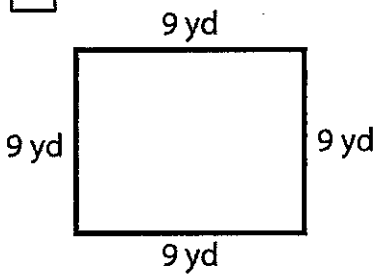
Find the perimeter of each given quadrilateral

1



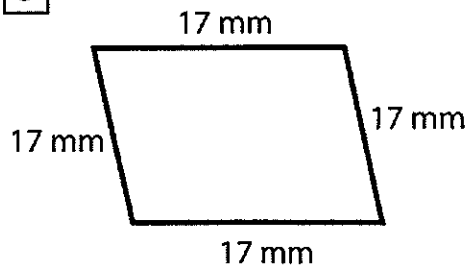
Perimeter = _____

2



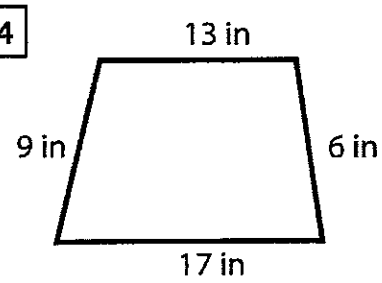
Perimeter = _____

3



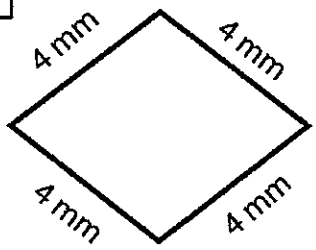
Perimeter = _____

4



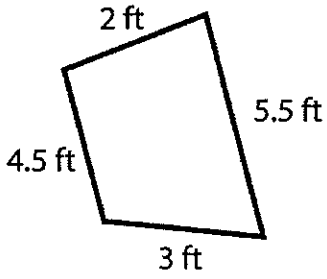
Perimeter = _____

5



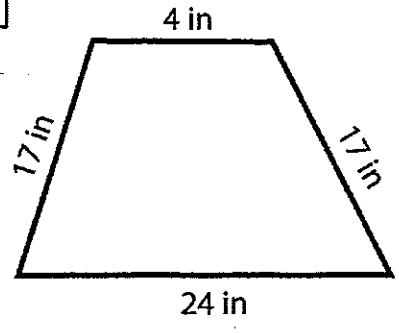
Perimeter = _____

6



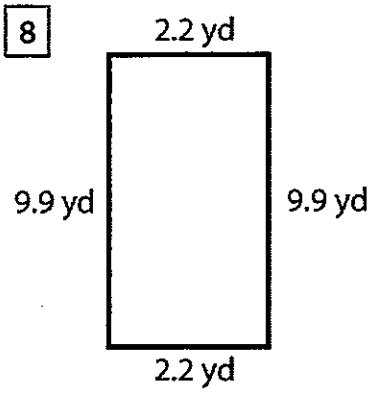
Perimeter = _____

7



Perimeter = _____

8



Perimeter = _____

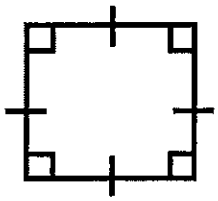
Name : _____

Score : _____ Date : _____

Area and Perimeter of Quadrilateral Worksheet

Find the area and perimeter of the given quadrilaterals

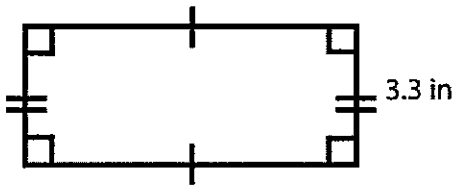
1



Area = _____

Perimeter = _____

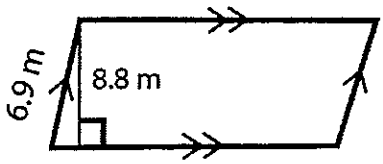
2



Area = _____

Perimeter = _____

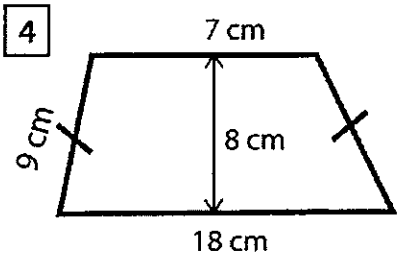
3



Area = _____

Perimeter = _____

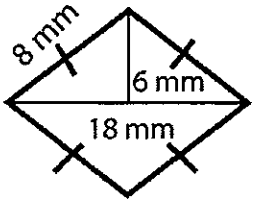
4



Area = _____

Perimeter = _____

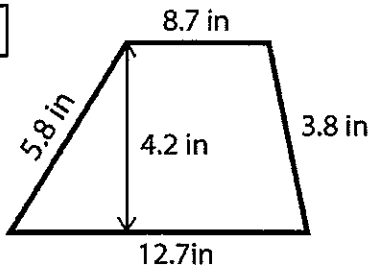
5



Area = _____

Perimeter = _____

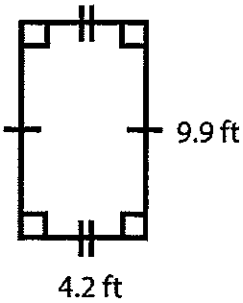
6



Area = _____

Perimeter = _____

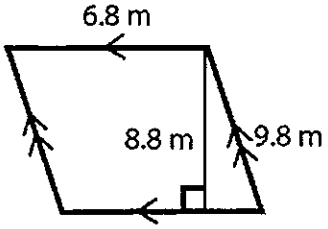
7



Area = _____

Perimeter = _____

8



Area = _____

Perimeter = _____

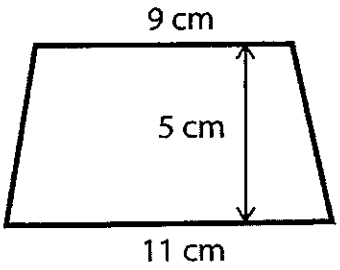
Name : _____

Score : _____ Date : _____

Area of Quadrilaterals Worksheet

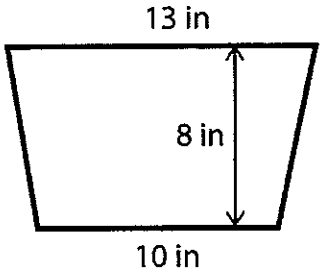
Find the area of the given quadrilaterals by splitting them into rectangles and triangles.

1



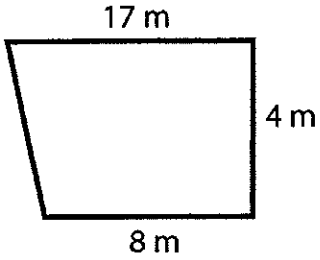
Area = _____ cm^2

2



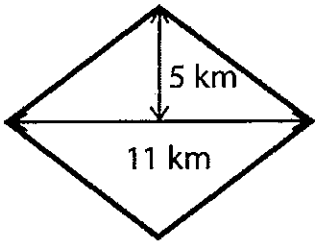
Area = _____ in^2

3



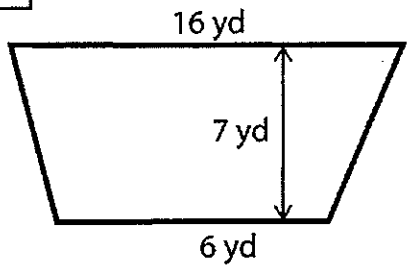
Area = _____ m^2

4



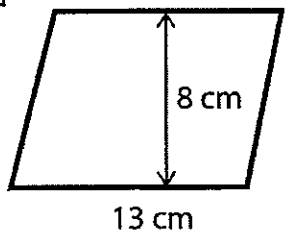
Area = _____ km^2

5



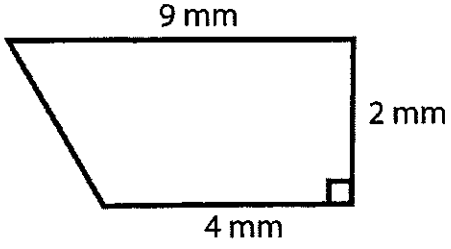
Area = _____ yd^2

6

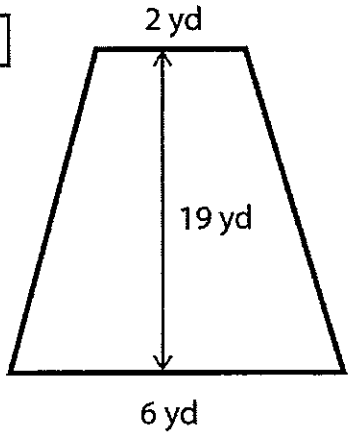


Area = _____ cm^2

7



8

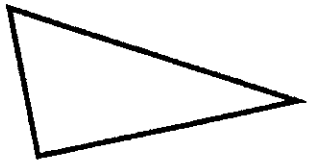


Name : _____

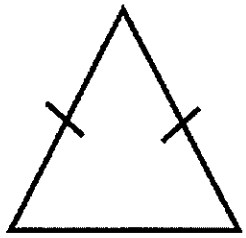
Score : _____ Date : _____

Classifying Triangles by Sides and Angles

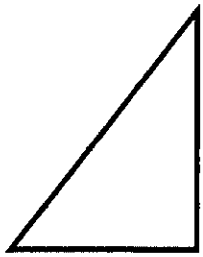
Identify each triangle based on their sides as equilateral, isosceles or scalene

1 

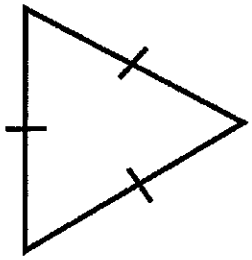
_____

2 

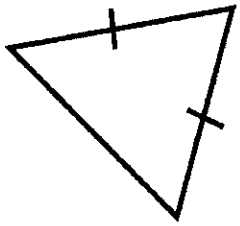
_____

3 

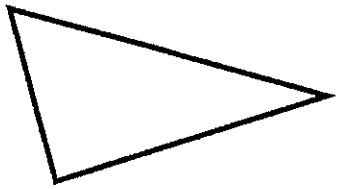
_____

4 

_____

5 

_____

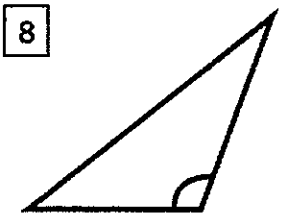
6 

_____

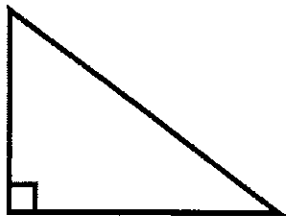
Identify each triangle based on their angles

7 

_____

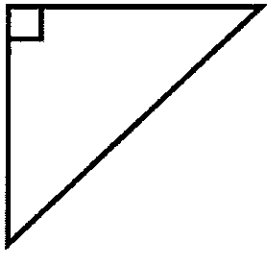
8 

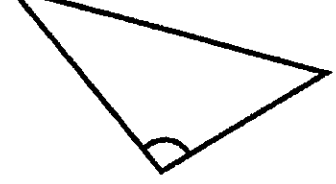
_____

9 

_____

10 

11 

12 

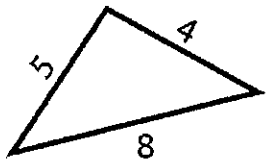
Name : _____

Score : _____ Date : _____

Identifying Triangles - Based on Sides

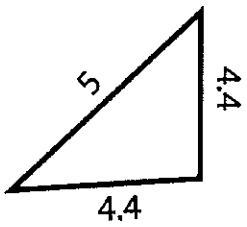
Identify each of the following triangles based on their given side lengths

1



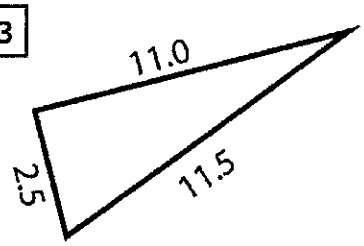
_____

2



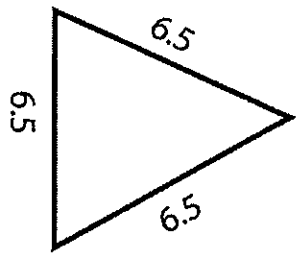
_____

3



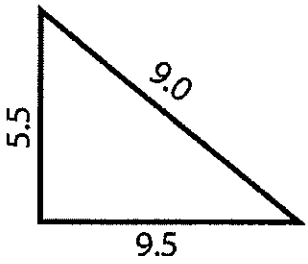
_____

4



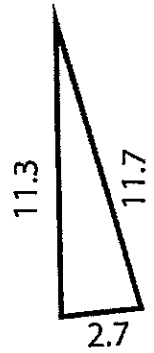
_____

5



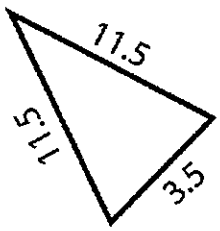
_____

6



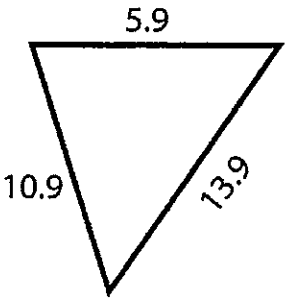
_____

7



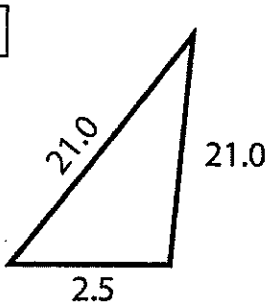
_____

8



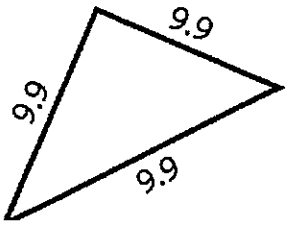
_____

9

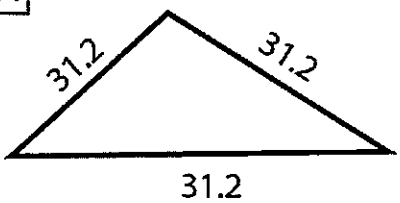


_____

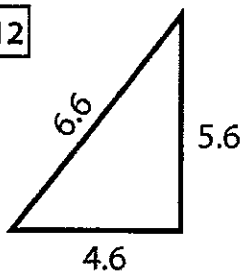
10



11



12



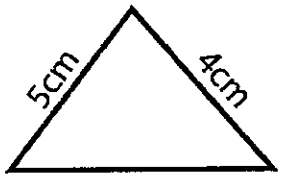
Name : _____

Score : _____ Date : _____

Identifying Triangles Worksheet

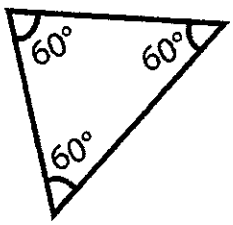
Identify and name the following triangles

1



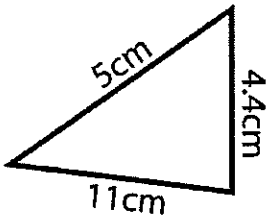
_____

2



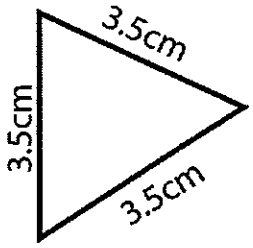
_____

3



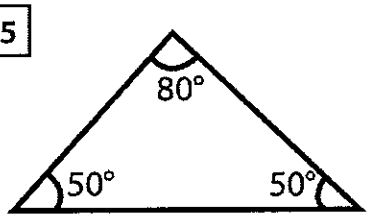
_____

4



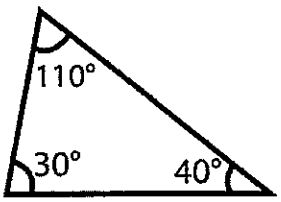
_____

5



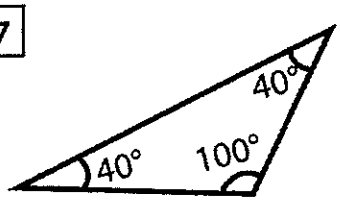
_____

6



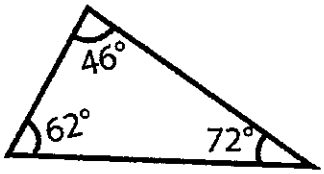
_____

7



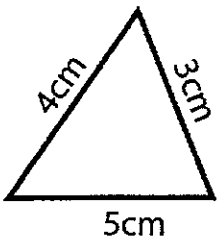
_____

8



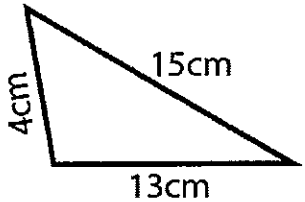
_____

9

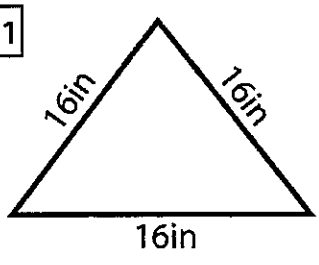


_____

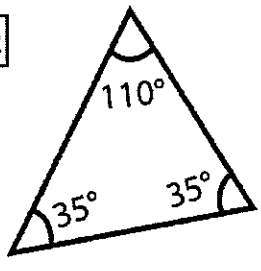
10



11



12



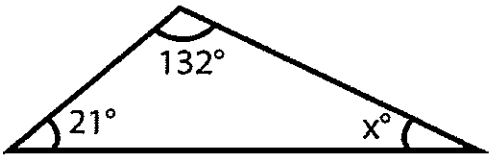
Name : _____

Score : _____ Date : _____

Missing Angles in a Triangle Worksheet

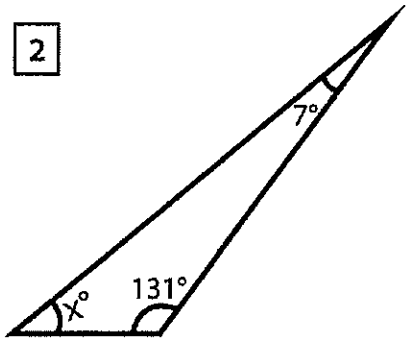
Calculate the missing angle(s) in the given triangles

1



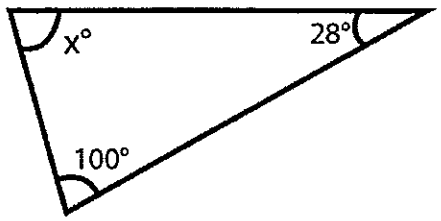
x° = _____

2



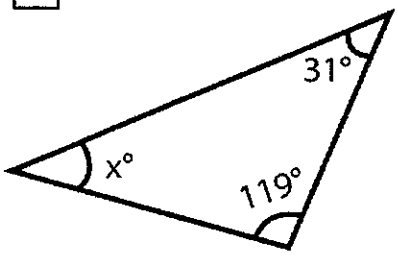
x° = _____

3



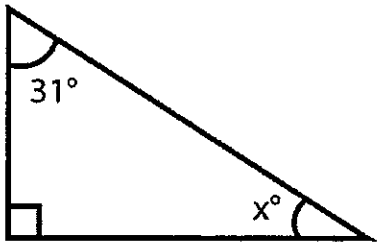
x° = _____

4



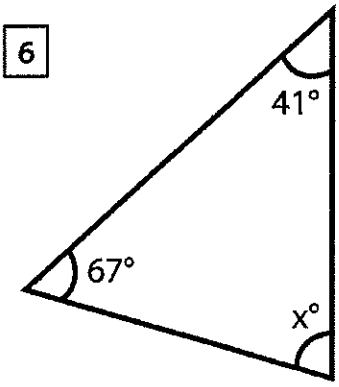
x° = _____

5



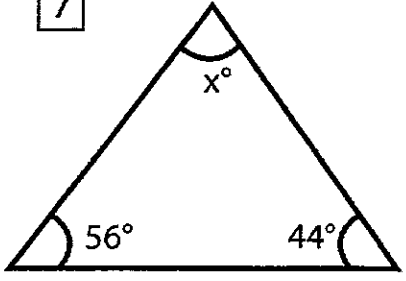
x° = _____

6



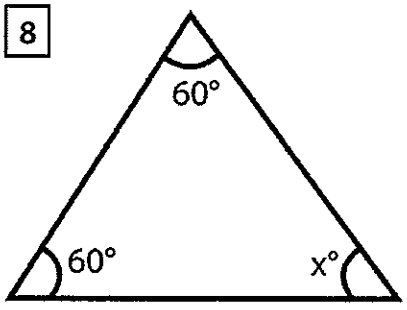
x° = _____

7



X° = _____

8



X° = _____