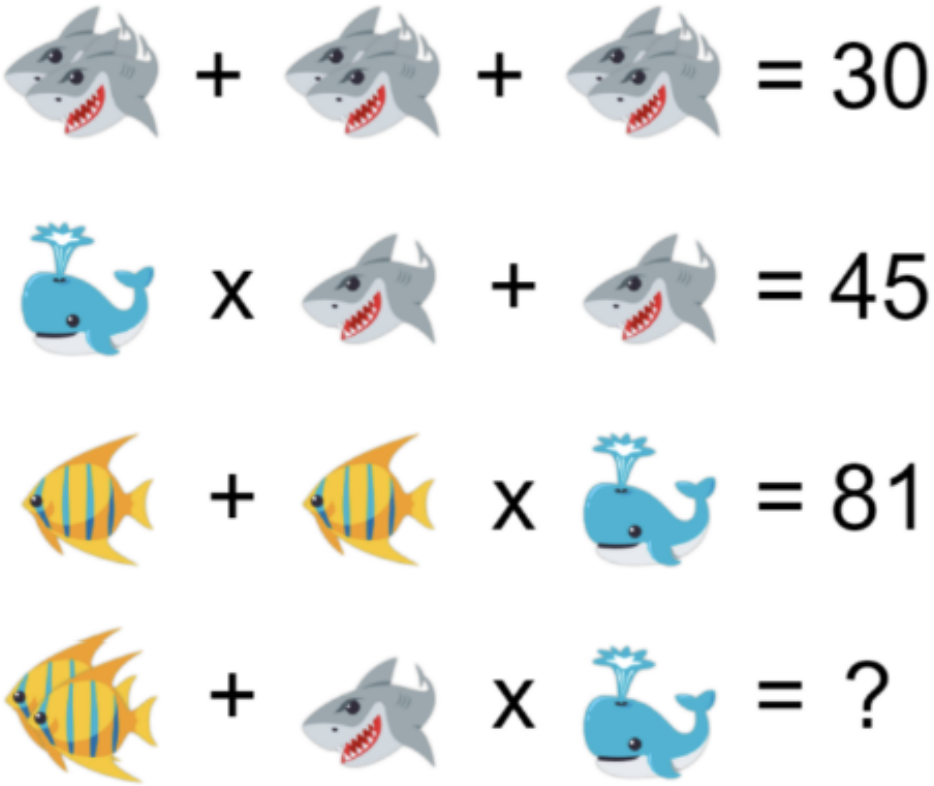
Summer Math Activities

for students entering

6th Grade



Please use this packet of math activities during the summer to continue practicing your skills. It will not be collected, however, we encourage you to spend time with math to help strengthen the skills you have worked hard to learn.

We look forward to seeing you soon!

The Nipher Math Team

NAME: _____

ONLINE RESOURCES

The following resources were checked by teachers and are considered appropriate. However, parents should always monitor their child's use of technology.

Basic Facts	www.xtramath.org ***focus on multiplication and division***	
Specific Skills	www.IXL.com/math **Log-In to school account using CLASSLINK**	
Video Lessons	https://www.khanacademy.org	
Math Puzzles	https://www.mashupmath.com/freemathpuzzles	
Digital Flash Cards	https://toytheater.com/math-flash-cards/	

HELPFUL INFORMATION

APPENDIX B: MATHEMATICS REFERENCE SHEETS

B.1 Mathematics Reference Sheet Grades 3–5

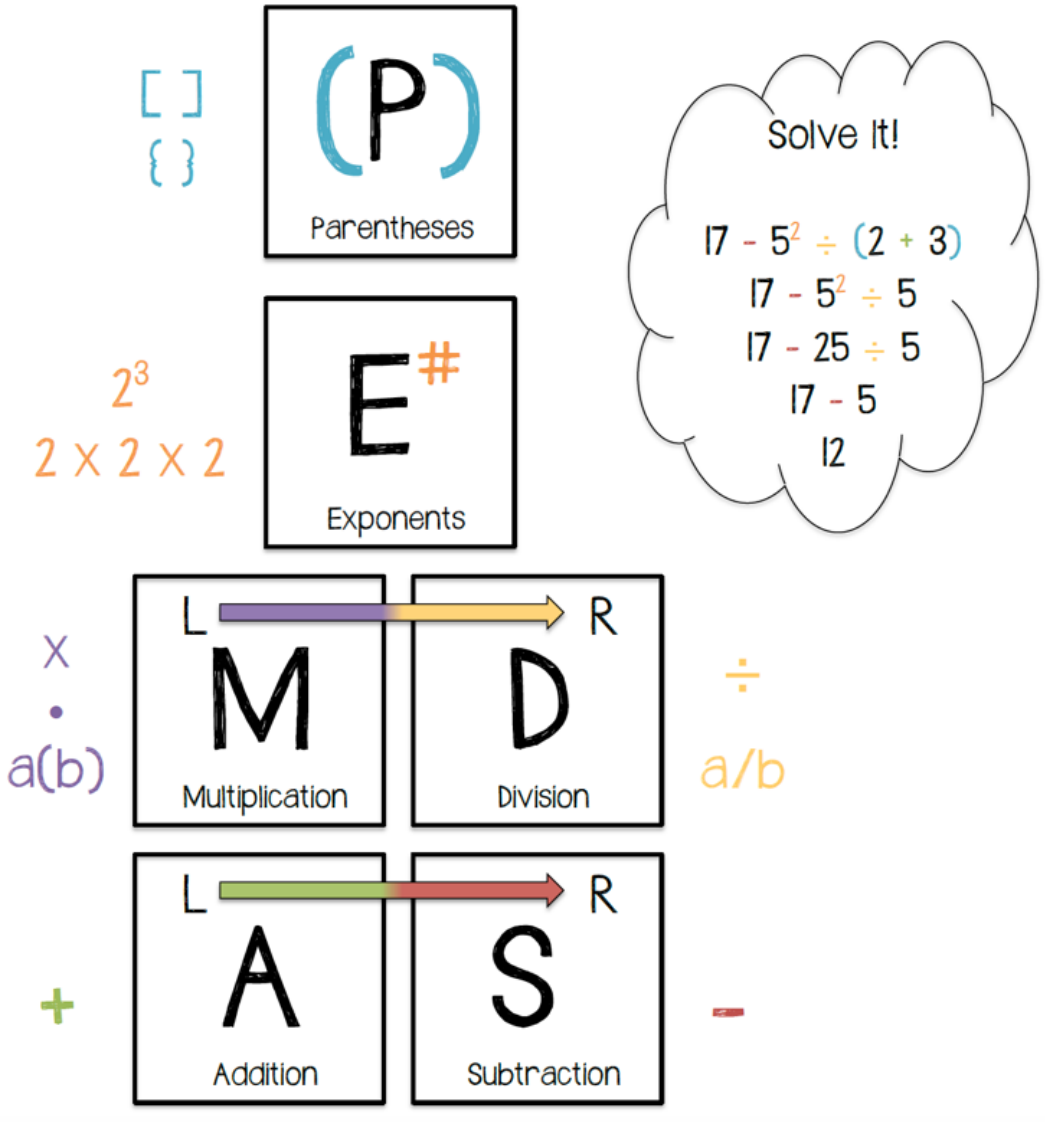
Standard Units	Metric Units
Conversions – Length	
1 yard (yd) = 3 feet (ft) = 36 inches (in)	1 centimeter (cm) = 10 millimeters (mm)
1 mile (mi) = 1,760 yards (yd) = 5,280 feet (ft)	1 meter (m) = 100 centimeters (cm)
	1 kilometer (km) = 1,000 meters (m)
Conversions – Volume	
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (l) = 1,000 milliliters (ml)
1 pint (pt) = 2 cups (c)	1 liter (l) = 1,000 cubic centimeters (cc)
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	
Conversions – Weight/Mass	
1 pound (lb) = 16 ounces (oz)	1 gram (g) = 1,000 milligrams (mg)
1 ton = 2,000 pounds (lb)	1 kilogram (kg) = 1,000 grams (g)
Conversions – Time	
1 minute (min) = 60 seconds (sec)	
1 hour (hr) = 60 minutes (min)	
1 day = 24 hours (hr)	

Grade Level(s)	Figure	Formula
Area		
3, 4, 5	Rectangle	$A = l \times w$
3, 4, 5	Square	$A = s \times s$
Volume		
5	Rectangular Prism	$V = B \times h$
Note: The volume V of all prisms is $V = B \times h$ where B is the area of the base and h is the height of the prism.		

PLACE VALUE

___	___ ,	___	___	___	.	___	___	___
ten-thousands	thousands	hundreds	tens	ones		tenths	hundredths	thousandths

ORDER OF OPERATIONS



FACTOR CHART 1-12

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

MATH CARD GAMES

Playing games involving reasoning and numbers can help your child gain confidence in math. These games can all be played with a regular deck of cards: **Crazy 8's, Rummy, Go Fish, Solitaire, Speed, Spoons**. The following pages have directions for a few school math card games to try too!

Secrets of The Great Pyramid

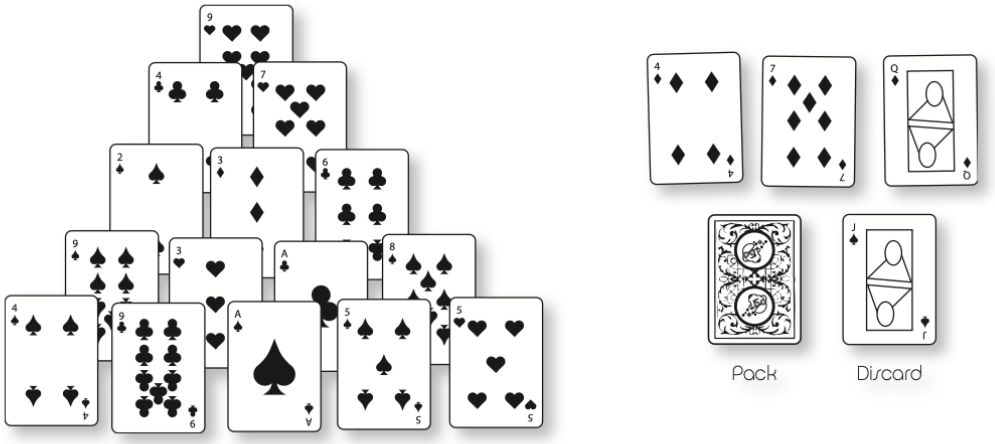
Materials

One deck of playing cards. Jokers are removed. Aces = 1, Jacks = 11, Queens = 12, Kings = 13, all other cards face value.

Rules and Play

1. The game *Secrets of the Great Pyramid* is for one player/team using on deck of cards.

2. Deal 15 cards face up in a pyramid as shown below. Then deal three cards for use in attempting to remove cards from the pyramid (4, 7, 12). Place the remaining cards face down on the playing surface.



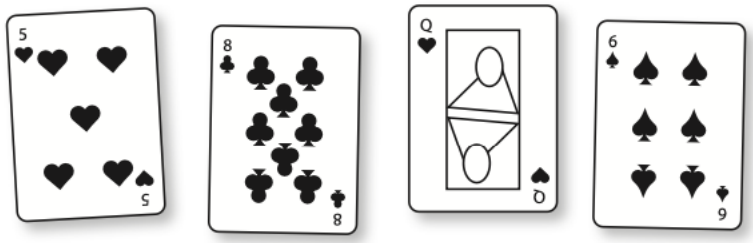
3. The object of the game is to remove all 15 cards from the pyramid by combining the value of two or three cards from the pack. You can add, subtract, multiply, or divide. Play begins by attempting to remove cards from the bottom row of the pyramid. In the example above, we could remove the 5 of Spades or the 5 of Hearts because they are both "free" and 12 – 7 =5. We could also have removed the 4 of Spades, 9 of Clubs or the Ace of Spades by using all three cards: 7 – (12+4)= 4; 12- 7 +4= 9; 12- (7+4)= 1. Players must decide which move to make, using either two or three cards.

4. Any unused card is returned to the pack and can be used later. If you cannot form a sentence that will remove a card, then place these cards in the discard pile and deal a new set of three.

5. Continue play until the pyramid is cleared or the pack is depleted. Record the results of each game on the graph on the next page. Each player is allowed only one pass through the pack.

Lucky 13 Challenge

The numbers from 1 to 13 can be formed using the four cards below (Queen = 12). You may use addition, subtraction, multiplication, division, place value, exponents, square roots, factorials, or even decimal points. The first two problems have been done for you. See how many you can find. Record your results below.



1 (8 - 5) - (12 / 6) = 1

2 (12 - 6) / (8 - 5) = 2

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

9 _____

10 _____

11 _____

12 _____

13 _____

***Ready for more?**

Draw your own 4 cards and see how many numerical expressions, from 1-13, you can create.

Triple Play

Materials

One deck of playing cards.

Rules and Play

1. *Triple Play* is a card game for two to four players/teams.

2. The dealer removes all of the face cards and Tens from the deck. Aces = 1, Jokers= 0.

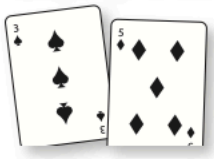
3. The dealer places the cards face down in one, two, three, four or five piles, depending up on the maturity of the players and the difficulty level desired. There should be an equal number of cards in each pile.

4. Play begins by having the dealer turn over the top card in each pile. Samples involving one- and two- digit games are shown below.

Tripling 1-Digit Numbers



Tripling 2-Digit Numbers

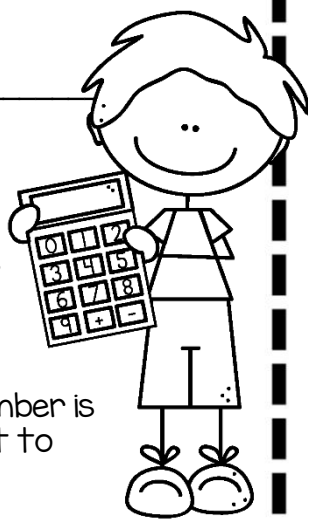


5. The first player/team who can correctly triple the number shown on the card(s) wins the set of cards. If a tie results, the top card(s) are set aside from each pile and either buried or become a part of winnings in the next round.

6. Play continues until the piles are depleted. The player/team with the most cards wins the game.

***This game is like the popular card game "speed" but involves math calculations too. Have fun playing!**

Name _____ Date _____



FIND THE VALUE

1 In the number

1,097,651

which digit is in the thousands place?

A. 9
B. 5
C. 7
D. 1

2 In the number

107.6532

which digit is in the hundredths place?

A. 5
B. 6
C. 3
D. 1

3 Which number is equivalent to

$\frac{6}{10}$

A. .060
B. .600
C. 6.0
D. 0.006

4 Which number represents

12 and $\frac{9}{100}$

A. 1.29
B. 120.09
C. 129.0
D. 12.09

5 In the number

73,962,150

what is the value of the digit 7?

A. 70 thousand
B. 7 million
C. 70 million
D. 700 thousand

6 What is the value of the digit 8 in the number

675.082

A. 8 hundredths
B. 8 hundred
C. 8 thousandths
D. 8 tenths

7 Which number is one thousandth less than

4,651.325

A. 3,651.325
B. 4,651.225
C. 4,551.325
D. 4,651.324

8 Which of the following numbers is greater than

5.605

A. 5.613
B. .5608
C. 5.508
D. .5606

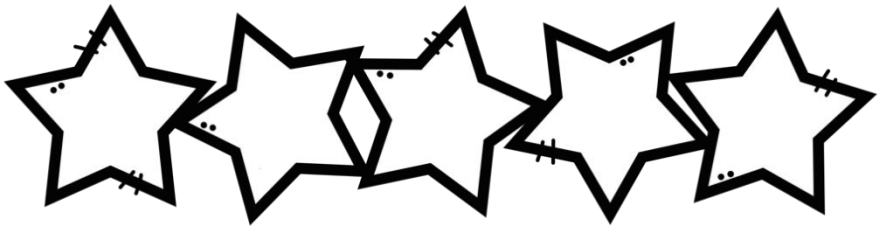
9 Which of the following numbers is less than

7.65

A. 7.650
B. 76.4
C. 7.56
D. 7.70

10 Which statement is true?

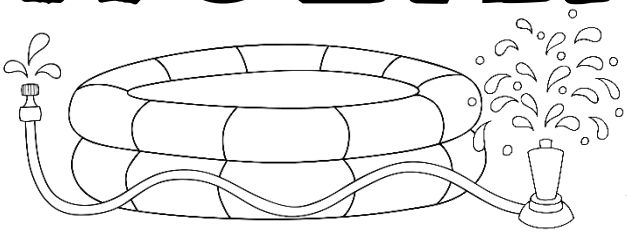
A. 7.5 = 75
B. 75 = .750
C. 7.5 = 7.500
D. .75 = 75.00



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Name _____ Date _____

MULTIPLY & Divide

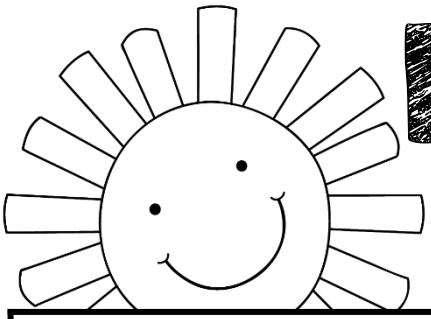


POWERS OF TEN

1. Solve the equation: $6 \times 10^4 =$ _____ A. 240 B. 24,000 C. 6,000 D. 60,000	2. What is the quotient of 10^5 divided by 100? A. 500 B. 1,000 C. 10,000 D. 5,000	3. Jake's road trip was 2×10^3 miles to his destination. How many miles did Jake travel? A. 20 miles B. 200 miles C. 2,000 miles D. 20,000 miles	4. Solve the equation: $0.89 \times$ _____ $= 890$ A. 10^3 B. 10^2 C. 100 D. 10^4
5. Mike calculates the weight of his truck to be 3.2×10^6 grams. What is the weight of his truck? A. 3,200 grams B. 3,200 kilograms C. 320 kilograms D. 32,000 grams	6. The answer to Katie's math problem is .0000037 How can Katie simplify her answer? A. 3.7×10^6 B. $3.7 \times 10^{0.00001}$ C. $3.7 \div 6{,}000$ D. $3.7 \div 10^6$	7. The number 3,520 is _____ times greater than 0.352 A. 10^4 B. 10^3 C. 100 D. 10^5	8. Which of the following is 10^6 greater than .00009? A. 9 B. .90 C. 90 D. 9.00
9. Fill in the missing number: _____ $\times$ 2,532 = 2,532,000,000 A. 1,000 B. 10,000 C. 10^4 D. 10^6	10. Fill in the missing number: _____ $\div 10^4 = 7.3$ A. 730,000 B. 73,000 C. 730 D. 7,300	11. Astronomers calculate a star to be 5×10^5 light years away. How far away is the star? A. 50,000 light yrs. B. 5,000 light yrs. C. 500,000 light yrs. D. 500 light yrs.	12. A scientist finds the weight of a substance to be $3.5 \div 10^3$ grams. What is the weight? A. 35 grams B. 3.5 kilograms C. 0.0035 grams D. 0.35 milligrams

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Name _____ Date _____



READ & WRITE DECIMALS

1. How is the number 0.43 read?

A. forty three hundredths
B. forty three
C. forty three tenths
D. decimal forty three

2. How is the number seventy five thousandths written?

A. 75,000
B. .750
C. 75.000
D. .075

3. Which of the following fractions represents the number .35?

A. 3/5
B. 35/100
C. 0/35
D. 10/35

4. Which of the following shows the fraction $^{89}/_{100}$ in decimal form.

A. 89.000
B. 890.00
C. 0.89
D. 0.089

5. Which of the following numbers is equivalent to ¼?

A. 0.25
B. 1.4
C. 0.50
D. 0.14

6. How is the number seven and six tenths written?

A. 76.0
B. 0.76
C. 7.6
D. 0.076

7. What is the correct expanded form of the number 0.63?

A. 6 x (1/10) + 3 x (1/100)
B. 63 x 100
C. (6 ÷ 10) + (3 ÷ 10)
D. (6 x 10) + (3 x 100)

8. How is the expanded form of the following number written as a decimal?

7 x (1/10) + 8 x (1/100) + 3 x (1/1000)

A. 78.3
B. 18.000
C. .0018
D. 0.783

9. Which of the following numbers has a 3 in the hundredths place and a 4 in the tenths place?

A. 3.4
B. 300.4
C. 430
D. 0.43

10. Which of the following is the correct way to read the number 20.032?

A. twenty decimal thirty two
B. twenty and thirty two thousandths
C. twenty point thirty two
D. twenty thirty two

11. Which of the following numbers is equivalent to ¾?

A. 0.34
B. 3.4
C. 7.5
D. 0.75

12. How is the number 0.67 read?

A. sixty seven
B. decimal sixty seven
C. sixty seven hundredths
D. sixty seven tenths

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COMPARING & Ordering Decimals



1. Which of the following numbers is the greatest? A. 3.25 B. 0.523 C. 32.5 D. 0.325	2. Which of the following numbers is the least? A. 0.125 B. 0.521 C. 0.215 D. 0.115	3. Which of the following numbers is greater than seventy five thousandths? A. 0.09 B. 0.074 C. 0.0750 D. 0.069
4. Which of the following numbers is less than four hundredths? A. 0.51 B. 0.040 C. 0.401 D. 0.039	5. Which answer shows the numbers in order from least to greatest? A. 3.102, 3.012, 3.210, 30.12 B. 3.012, 3.102, 3.210, 30.12 C. 30.12, 3.210, 3.102, 3.012 D. 3.210, 30.12, 3.102, 3.012	6. Which answer shows the numbers in order from greatest to least? A. 1.012, 1.02, 1.20, 1.22 B. 1.02, 1.20, 1.22, 1.012 C. 1.22, 1.20, 1.02, 1.012 D. 1.012, 1.22, 1.20, 1.02
7. Which of the following statements is false? A. 0.12 > 0.122 B. 2.1 > 0.21 C. 21.2 < 212.000 D. 2.23 < 2.29	8. Which of the following answer choices completes the number sentence below? 3.238, 3.239, _____ A. 3.2390 B. 3.241 C. 32.40 D. 3.24	9. Which of the following statements is true? A. 38.9 < 3.89 B. 3.89 = 3.890 C. 0.389 > 0.398 D. 37.9 < 3.79

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ROUNDING Decimals

1. Round the following number to the nearest tenth.
4.782

2. Round the following number to the nearest hundredth.
50.932

3. Round the following number to the nearest tenth.
75.243



4. Round the following number to the nearest hundredth.
6.3790

5. Round the following number to the nearest tenth.
1.936



6. Is $8.45 closest to $7, $8, or $9?

A. $7 B. $8 C. $9

7. Is $22.68 closest to $21, $22, or $23?

A. $22 B. $23 C. $24

8. Mikey spent $4.28 on breakfast, $8.92 on lunch, and $12.89 on dinner. **About** how much did his meals cost in all?

A. about $25
B. about $24
C. about $26

9. If it takes Ashley 2.78 minutes to run one lap around the track, **about** how long would it take her to run 3 laps around the track?

A. about 6 minutes
B. about 7 minutes
C. about 9 minutes

10. Round the time of 52.279 to the nearest tenth of a second. _____

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MULTIPLYING Whole Numbers



1 Mr. Perino plants 15 rows of tomato plants. If there are 32 tomato plants in each row, how many plants will he have altogether?

_____

2 Laura baked 8 pans of brownies. Two of the pans held 15 brownies each and six of the pans held 18 brownies each. How many brownies did Laura bake in all?

_____

3 A store sells 108 different colors of yarn. They have 22 rolls of each color in stock. How many rolls of yarn does the store have in stock?

_____

4 Solve the following problem.

$$\begin{array}{r} 398 \\ \times\ 102 \\ \hline \end{array}$$

5 Solve the following problem.

$$\begin{array}{r} 448 \\ \times\ 36 \\ \hline \end{array}$$

6 Solve the following problem.

$$\begin{array}{r} 140 \\ \times\ 286 \\ \hline \end{array}$$

7. 323 x 28 _____

8. 645 x 92 _____

9. 282 x 77 _____

10. 297 x 661 _____

11. 698 x 231 _____

12. 901 x 257 _____

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Name _____ Date _____

DIVIDING Whole Numbers



1. Kasey picked 540 blueberries to sell at the Farmer's Market. She sorts her blueberries evenly into 9 small baskets. How many blueberries will she put in each basket?

_____

2. The fifth grade class took a field trip to a local theater. There were 168 students. The theater had 14 seats in each row. How many rows did they use?

_____

3. Mrs. Smith is putting 100 apples into crates. Each crate will hold 12 apples. How many apples will be left over after filling each crate?

_____

4. Find the missing divisor.

264 ÷ _____ = 12

5. Which of the following statements is true?

A. 34 ÷ 0 = 34
B. 34 ÷ 0 = 1
C. 34 ÷ 0 = 0
D. 34 ÷ 0 cannot be solved

6. What is the quotient?

7,560 ÷ 15 = _____

7. What is 890,000 divided by 100?

A. 890
B. 89,000
C. 89.0
D. 8,900

8. Solve the division problem..

$6\overline{)1812}$

9. Mrs. Crenshaw's class sold 442 tickets to a spaghetti dinner fundraiser. Each student sold the same number of tickets. If there are 26 students in the class, how many tickets did each student sell?

_____

10. 372 x 34 = 12,648 is the opposite of...

12,648 ÷ _____ = _____

11. Westmore School has 576 students. The school buses hold 48 students. Every student rides a bus to and from school. How many buses do they need?

_____

12. Which of the following statements is true?

A. 25 ÷ 1 = 0
B. 25 ÷ 1 = 1
C. 25 ÷ 1 = 25
D. 25 ÷ 1 cannot be solved

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Name _____ Date _____

MORE WORK WITH DECIMALS

1. Find the difference.

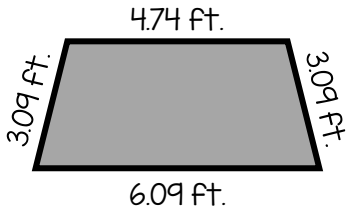
74.26 - 64.1 =

_____

2. At a swim meet, three members of the swim team raced across the pool. Their times were 10.08 seconds, 9.57 seconds, and 9.89 seconds. What was the total of their three times?

_____

3. Find the perimeter of the trapezoid.



_____

4. Beginning with the number 3.675 add: 1 hundredths, 2 ones, and 3 tenths. What is the result?

A. 5.995
B. 5.985
C. 6.985
D. 6.895

5. Find the difference.

6.94 - 3.69 =

_____

6. A small pack of gum costs $0.98. How could you find the cost of 6 packs?
(Circle all correct answers)

Add $0.98 six times

Subtract $0.98 - 6

Multiply $0.98 by six

Divide $0.98 by six

7. Find the product.

0.75 x 2.5 =

_____

8. The temperature in Ben's house was 72.0 degrees Fahrenheit. The temperature in Ben's car on a hot summer day was 102.2 degrees. How much hotter was Ben's car than his house?

_____

9. Find the quotient.

0.51 ÷ 3 =

_____

10. A recipe for brownies requires 1.75 cups of milk, 0.25 cups of oil, and 0.75 cups of water. How much liquid does the brownie recipe require?

_____

11. Find the area of the rectangle.



_____

12. Beginning with the number 85.720 add: 2 hundredths, 1 tenth, and 3 ones. What is the result?

A. 87.823
B. 86.923
C. 88.840
D. 87.930

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Name _____ Date _____



Order of OPERATIONS

1. Choose the correct order of operations.

   A. multiply & divide from right to left
   B. divide & multiply from right to left
   C. multiply & divide from left to right

2. Choose the correct order of operations.

   A. add & subtract from left to right
   B. subtract & add from right to left
   C. add & subtract from right to left

3. What is the first step in the order of operations?

   A. division and multiplication
   B. parentheses and brackets
   C. addition and subtraction

4. What is the last step in the order of operations?

   A. addition and subtraction
   B. division and multiplication
   C. parentheses and brackets

5. What is the first step in solving the expression below?

   $18 \div (6 - 2) + 4$

   A. $18 \div 6$
   B. $6 - 2$
   C. $18 + 4$

6. What is the last step in solving the expression below?

   $3 \times [(4 \times 5) - 5]$

   A. $9 - 5$
   B. 4×5
   C. 3×15

7. Solve the expression.

   $7 \div (5 + 2) =$ _____

8. Solve the expression.

   $24 - (3 \times 2) \div 2 =$ _____

9. Solve the expression.

   $[(50 \times 2) - 10] \div 5 =$ _____

10. Solve the expression.

    $9 \times (8 - 6) \div 2 =$ _____

11. Solve the expression.

    $(42 + 7) - (4 + 5) \times 4 =$ _____

12. Solve the expression.

    $(57 - 25) \div 2 + 16 \times 2 =$ _____

13. Solve the expression.

    $6 \times [(34 - 26) + 3] =$ _____

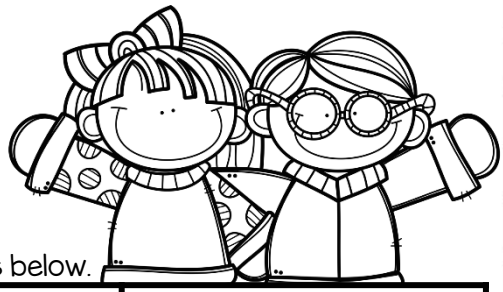
14. Solve the expression.

    $[(14 + 7) + (66 \div 6)] \div 4 =$ _____

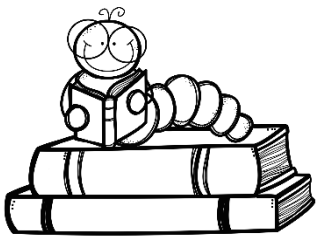
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Name _____ Date _____

NUMERICAL Expressions



Directions: Match the numerical expressions with the verbal expressions below.

1. 3 times the sum of 27 and 9 a) 3 + (27 + 9) b) 3 x (27 + 9) c) 27 + (3 x 9)	2. 6 times the difference between 71 and 41 a) (71 - 41) x 6 b) 6 x (71 + 41) c) 71 - 41 x 6	3. Triple the sum of 36 and 15 a) 36 + (3 x 15) b) 3 + (36 x 15) c) 3 x (36 + 15)	4. Seven less than the product of 9 and 9. a) 9 x 9 - 7 b) (7 - 9) x 9 c) 9 + (7 x 9)
5. 8 x (48 + 20) a) 8 times 48 plus 20 b) sum of 48 and 20 c) 8 times the sum of 48 and 20	6. (12 - 6) x 2 a) double the difference of 12 and 6 b) product of 6 and 2 c) 2 times the sum of 12 and 6	7. 4 + (64 ÷ 8) a) quotient of 64 and 8 plus 4 b) the sum of 4, 64, and 8 c) 4 times the sum of 64 and 8	8. (45 ÷ 5) x 2 a) double the quotient of 45 and 5 b) 2 times the sum of 45 and 5 c) the quotient of 45 and 5 minus 2
9. 12 x 60 a) (10 x 60) - (2 x 60) b) (10 x 60) + (2 x 60) c) (10 x 60) x (2 X 60)	10. 59 X 16 a) (60 - 1) X 16 b) 60 X (6 X 10) c) (60 X 16) - (1 X 16)	11. 22 X 30 a) (20 X 30) + (2 x 30) b) (20 + 30) x (2 + 30) c) (20 + 30) x (2 + 30)	12. 93 x 12 a) (90 x 12) + (3 x 12) b) 12 x (90 x 3) c) (90 = 3) x 12
13. Choose the correct sign. (5 + 5) x 12 ____ 5 + 5 x 12 a) < b) > c) =		14. Choose the correct sign. 83 x 15 ____ (80 x 15) + (2 x 15) a) < b) > c) =	
15. Kayla has 18 bottles of bubbles. She wants to give 2 bottles to each of her 6 friends. How many bottles will she have left over? Which expression solves the problem? a) (18 ÷ 2) ÷ 6 b) (18 ÷ 2) + 6 c) (18 x 2) - 6 d) (18 x 2) + 6		16. The library has 12 books on 4 shelves. Jesse takes away 3 books from two shelves. How many books are left? Which expression solves the problem? a) (12 x 4) - (3 x 2) b) (12 x 2) - (3 x 4) c) (12 x 3) - (4 x 2) d) (12 x 4) + (3 x 2)	

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ANALYZING PATTERNS

1. Complete the function table.

Rule x3

Input	Output
1	
2	
5	15
8	
12	

2. Complete the function table.

Rule +4, ÷2

Input	Output
2	
6	5
10	
24	
42	

3. Find the rule.

Rule: _____

Input	Output
11	2
16	3
26	5
46	9
61	12

4. Find the rule.

Rule: _____

Input	Output
8	30
10	38
16	62
22	86
50	80

5. Write an equation to show the relationship between the input and output.

Equation: _____

Input (r)	Output (s)
11	2
16	3
26	5
46	9
61	12

6. Write an equation to show the relationship between the input and output.

Equation: _____

Input (o)	Output (s)
2	3
6	5
10	7
24	14
42	23

7. Write an equation to show the relationship between the input and output.

Equation: _____

Input (g)	Output (h)
80	8
40	4
100	10
90	9
50	5

8. Write an equation to show the relationship between the input and output.

Equation: _____

Input (l)	Output (m)
18	6
6	2
27	9
21	7
15	5

9. Which coordinate pair would be plotted on the same line as the coordinates in the table?

x	0	3	6	9
y	2	8	14	20

a) 5, 12 c) 10, 23

b) 2, 4 d) 7, 18

10. Which coordinate pair would be plotted on the same line as the coordinates in the table?

x	1	5	9	13
y	1	3	5	7

a) 10, 6 c) 6, 3

b) 4, 3 d) 7, 4

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Add & Subtract FRACTIONS

Read the directions in each box below. Write all answers in simplest form.

1. To add the fractions $\frac{5}{12}$ and $\frac{3}{4}$, what must first be done?

a) change the fractions to improper fractions
b) reduce the fractions to the lowest terms
c) find a common denominator
d) make the numerators the same

2. Find the sum.

$\frac{1}{2} + \frac{1}{4} =$

_____

3. Find the difference.

$\frac{2}{3} - \frac{1}{9} =$

_____

4. Find the sum.

$2\frac{1}{8} + 6\frac{1}{2} =$

_____

5. Find the difference.

$5\frac{2}{4} - 2\frac{1}{3} =$

_____

6. Find the sum.

$\frac{3}{4} + 1\frac{7}{12} =$

_____

7. Find the difference.

$3\frac{4}{10} - \frac{2}{5} =$

_____

8. Find the sum of three sixths and nine twelves.

_____

9. Find the difference of six eighths and three fourths.

_____

10. Find the sum of five and five eights plus one and one fourth.

_____

11. Find the difference of three and two eights minus two and one forth.

_____

12. Find the missing fraction.

$4\frac{1}{4} + ____ = 7\frac{1}{2}$

13. Find the missing fraction.

$6\frac{3}{4} - ____ = 2\frac{1}{4}$

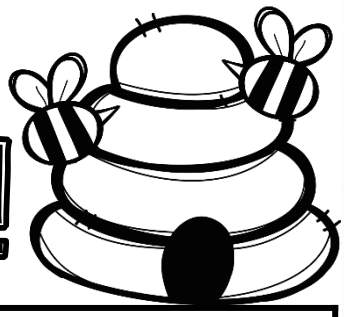
14. Find the missing fraction.

$____ + 8\frac{1}{2} = 10\frac{3}{8}$

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PROBLEM SOLVING with Fractions!



Simplify all answers if possible.

1. April was making two different cakes. One recipe needed $\frac{7}{9}$ cup of flour and other needed $\frac{5}{9}$ cup of flour. How much flour did she need to make both cakes?

2. Marcus had $\frac{1}{7}$ of a bag of candy. Nick had $\frac{2}{3}$ of a bag of candy. If the two friends combined their bags of candy how much would they have?

3. Natalie plans to run 5 miles every week for 3 weeks. The first day of the first week she ran $1\frac{1}{5}$ miles. How many miles does she need to run the rest of the first week?

4. Four-fifths of the students studied for a math test. Out of the students that studied, $\frac{1}{3}$ did not pass. What fraction of the students that studied passed the test?

5. A large box of oranges weighed $7\frac{3}{5}$ pounds. A small box of oranges weighed $3\frac{1}{4}$ pounds. What is the difference in weight between the two boxes?

6. Katie took $1\frac{1}{2}$ liters of water to the pool. When she left the pool, she only had $\frac{7}{8}$ liters of water left. How much water did Katie drink at the pool?

7. Ben had $2\frac{1}{6}$ cups of lemonade. He gave his little sister $\frac{1}{2}$ of the lemonade. How much does Ben have left?

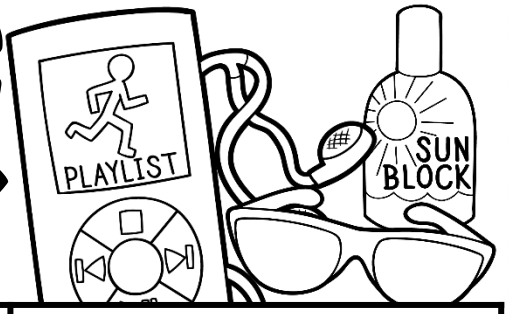
8. Allison used $\frac{2}{9}$ yards of ribbon to tie around Kim's present. She used $\frac{7}{8}$ yards of ribbon to tie around Lanie's present. How many yards of ribbon did she use in all?

9. Macie drank $\frac{1}{4}$ quart of milk and Jamie drank $\frac{1}{8}$ of a quart less than Macie. How much milk did they drink all together?

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INTERPRETING FRACTIONS



1. Five groups at summer camp have a total of 27 boxes of popsicles to share. How many boxes will each group receive? _____	2. If 16 is divided by 5, what fraction would represent the remainder? _____	3. Suppose four friends want to share five cookies equally. How many cookies would each friend receive? _____
4. If there are 90 minutes in a race and 4 teams of runners share this time equally, how many minutes will each team run? _____	5. Ten soccer teams are sharing 3 boxes of bottled water. How much of a box will each team get? _____	6. Dan has $695 in the bank. He wants to take out $\frac{2}{5}$ of his money. How much money should he take out? _____
7. You have 7 packs of paper to share between you and 3 of your friends. If you share the paper equally, how much paper does each student get? _____	8. Four friends are taking a road trip. They want to share the driving equally. If the trip takes 6 hours, how long should each friend drive? _____	9. If 9 people want to share a 50-pound box of apples equally by weight, how many pounds of apples should each person get? _____

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MULTIPLYING FRACTIONS



Simplify all answers if possible.

1. Multiply

$\frac{4}{5} \times \frac{2}{4} =$

2. Multiply

$5\frac{3}{4} \times \frac{1}{3} =$

3. Multiply

$\frac{5}{6} \times 7 =$

4. Multiply

$\frac{2}{3} \times 18 =$

5. Mr. Farmer needs $\frac{5}{5}$ of a box of nails to build one door for his horse stables. He needs to build 7 doors. How many boxes of nails will he use?

_____

6. Marcy bought 8 boxes of pencils. Each box contained 10 pencils. $\frac{4}{5}$ of the pencils were red. How many red pencils were in the boxes?

_____

7. Ricky earns $\frac{2}{3}$ of a dollar for every candy bar he sells. If he sells 30 candy bars, how much will he earn?

_____

8. Callie uses $\frac{2}{4}$ of a tsp. of sugar for each cup of punch she makes. If she makes 10 cups of punch for a party, how many teaspoons of sugar will she need?

_____

9. The Eiffel Tower in Paris, France is 1,063 feet tall. If you took an elevator $\frac{3}{4}$ the way up the tower, how far from the ground would you be in feet?

_____

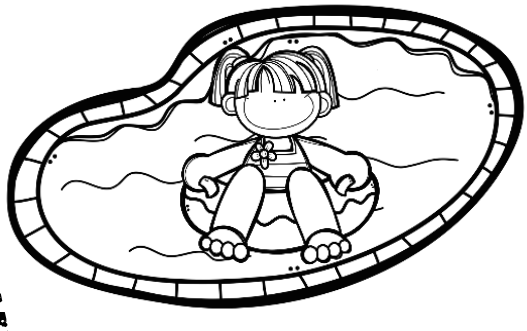
10. Evan and his family order 5 cups of soup at a restaurant. The cook used $\frac{1}{4}$ cup of milk for each bowl. How many cups of milk did the cook use to make all 5 bowls of soup?

_____

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MULTIPLY TO FIND AREA



Area = base x height Simplify all answers if possible.

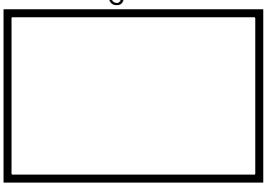
1. Find the area of the rectangle.



2. Find the area of the rectangle.



3. Find the area of the rectangle.



4. Find the area.

Base: $5\frac{3}{5}$ ft

Height: $2\frac{1}{2}$ ft

_____

5. Find the area.

Base: $6\frac{3}{4}$ cm

Height: $3\frac{2}{3}$ cm

_____

6. Find the area.

Base: $1\frac{1}{3}$ yd

Height: $2\frac{3}{4}$ yd

_____

7. Find the area.

Base: $3\frac{1}{4}$ cm

Height: $2\frac{1}{2}$ cm

_____

8. Each side of a square bedroom is $10\frac{1}{2}$ meters long What is the area of the bedroom?

9. The perimeter of a rectangular frame is 24 centimeters. It is $4\frac{1}{2}$ centimeters wide. How long is it?

10. A small garden has a perimeter of $24\frac{1}{4}$ feet. If the length is 8 feet, what is the area of the garden.

11. Lynn is putting tiles on her bathroom floor. Each tile measures 1 square foot each. The floor measures $4\frac{1}{2}$ feet by $3\frac{3}{4}$ feet. How many tiles will she need to cover the floor?

12. A dog pen is $3\frac{1}{3}$ yards wide by $5\frac{2}{3}$ yards long. What is the area of the dog pen?

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Multiplication as Scaling



1. Without multiplying, which product will be smaller and why?

   A. $5 \times \frac{1}{2}$

   B. $5 \times \frac{1}{8}$

2. Without multiplying, which product will be larger and why?

   A. $2 \times \frac{5}{5}$

   B. $6 \times \frac{4}{5}$

3. Without multiplying, which product will be smaller and why?

   A. $9 \times \frac{5}{10}$

   B. $9 \times \frac{3}{3}$

4. Without multiplying, which problem will have a product of less than 2?

   A. $2 \times \frac{3}{5}$

   B. $2 \times \frac{5}{5}$

5. Describe the change that will occur to the 3 in this problem?

   $3 \times \frac{1}{3}$

   a) It will stay the same.
   b) It will double.
   c) It will be cut in half.
   d) It will triple.

6. The product of the following problem will be....

   $4 \times \frac{7}{8}$

   a) much greater than 4
   b) slightly greater than 4
   c) much less than 4
   d) slightly less than 4

7. Ashley spent 2 hours at dance practice. Katie spent $\frac{3}{4}$ times as many hours at dance practice as Ashley. Did Katie spend more than, less than or equal to 2 hours at dance practice.

8. Jess runs $\frac{9}{5}$ of a mile each day. Gigi runs $1\frac{2}{3}$ each day. After a week, who will have run more than 8 miles?

9. Michelle is making a sign for her sister's birthday. The sign says "HAPPY BIRTHDAY" in all capital letters. If each letter is $\frac{4}{5}$ inches long estimate the length needed to spell out "HAPPY BIRTHDAY." Don't forget to add $\frac{4}{5}$ for the space between the two words!

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Real World PROBLEM SOLVING



Simplify all answers if possible.

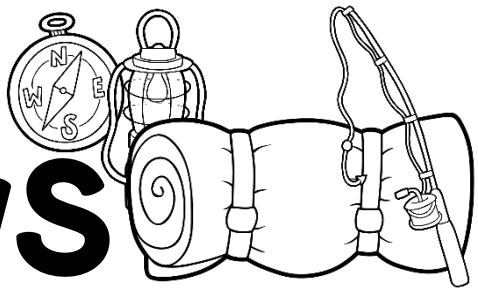
1. Ellie has $\frac{2}{8}$ pound of cheese. She used $\frac{1}{2}$ of the cheese to make tacos. Since there are 16 ounces in one pound, how many ounces of cheese does Ellie use to make tacos?	2. There are $3\frac{1}{2}$ groups of students ready to load buses for a field trip. Each group will fill one bus. $\frac{2}{5}$ of the students on each bus are boys. How many buses would it take to carry only the boys?	3. Mark is going to a pool party. It is $2\frac{3}{4}$ miles from his house. Mark decides to ride his bicycle, but he has a flat tire $\frac{2}{3}$ of the way there. How far is Mark from his house?
4. Ansley meets her friends at the movie theater. They had already purchased a bucket of popcorn, and there is only $\frac{3}{4}$ left. Ansley eats $\frac{1}{3}$ of the remaining popcorn. How much of the bucket did Ansley eat?	5. Jamie bought 6 pool floats to use during the summer. $\frac{2}{3}$ of the floats were yellow. How many yellow floats did he buy?	6. Mrs. Jones purchases $\frac{2}{3}$ of a pound of cookies for her class. If the cookies are $6.00 per pound, how much did she pay for the cookies?
7. The school band has 24 members. If $\frac{1}{8}$ of them play the drums how many members of the band play the drums?	8. Callie spent $1\frac{1}{2}$ hours outside with her sister. They spent half of that time jumping on their trampoline. How long did they jump on the trampoline?	9. Tanya determined that the dimensions of a painted barn quilt needed to be $1\frac{1}{3}$ ft. by $2\frac{1}{4}$ ft . What will be the area of the barn quilt?
10. Mrs. Smith's oatmeal cookie recipe calls for $\frac{2}{5}$ of a cup of sugar. How much sugar would she need to make $\frac{1}{2}$ of a batch of cookies?	11. At the park, 6 boys are practicing throwing, catching, and hitting a baseball. Of those 6 boys, $\frac{2}{3}$ of them are working on hitting. How many boys are practicing hitting the ball.	12. Rachel works at a lemonade stand at the park. On Monday she used $1\frac{2}{5}$ bags of lemons. On Tuesday she used $1\frac{1}{4}$ times as many lemons as on Monday. How many bags of lemons did Rachel use on Tuesday?

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DIVIDING FRACTIONS



1. When dividing fractions and whole numbers, you must first....
   A. change the improper fraction to a mixed number.
   B. write the whole number as a fraction with a denominator of 1.
   C. divide numerator and denominator by the whole number

2. Dividing a whole number by a fraction less than 1 whole results in a quotient that is _____ the original number.
   A. less than
   B. greater than
   C. equal to

Divide. Write each quotient in simplest form.

3. $6 \div \frac{4}{9} =$

4. $\frac{3}{5} \div 4 =$

5. $10 \div \frac{2}{3} =$

6. $\frac{2}{7} \div 3 =$

7. $2 \div \frac{1}{2} =$

8. $\frac{5}{6} \div 5 =$

9. $8 \div \frac{4}{5} =$

10. Katie and Ellie split $\frac{1}{4}$ of a chocolate cake. How much of the chocolate cake will each girl get?

11. Ben took $3\frac{1}{2}$ cups of marshmallows to share with 7 friends while camping. How many cups of marshmallows does each friend get?

12. Rick has 5 pieces of wood from a tree that he cut down for firewood. If he cuts each piece into fifths how many pieces of wood will he have to build a fire?

13. Ten watermelons weigh $16\frac{1}{2}$ pounds. What is the average weight of each watermelon?

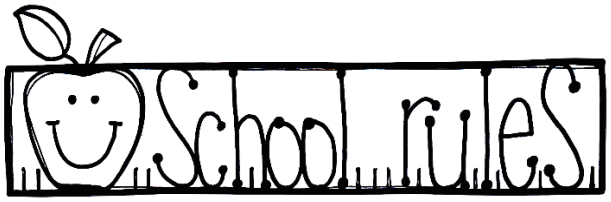
14. Danny made 7 cups of hot chocolate for his family. His hot water pot only holds $3\frac{1}{2}$ cups at a time. How many pots of hot water will he need to make to serve his family hot chocolate?

15. Mr. Benson has a rope that is 2 feet long. He needs to cut his rope into $\frac{1}{4}$ foot sections. How many pieces of rope will he have after he cuts it?

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CONVERTING Units of Measurement



Units of Length		Units of Capacity		Units of Weight	
12 inches (in.)	= 1 foot (ft)	8 fluid ounces	= 1 cup	16 ounces (oz.)	= 1 pound (lb.)
3 feet	= 1 yard (yd.)	2 cups	= 1 pint	2,000 pounds	= 1 ton
36 inches	= 1 yard	16 fluid ounces	= 1 pint		
5,280 feet	= 1 mile (mi.)	2 pints	= 1 quart (qt.)		
1,760 yards	= 1 mile	4 quarts	= 1 gallon (gal.)		

Circle the greater length.

1. 3 ft. or 38 in.
2. 10 in. or 1 ft.
3. 1 ft. 9 in. or 2 ft.
4. 5 ft. or $1\frac{1}{2}$ yd.
5. 5,000 yd. or 3 mi.

Write an equivalent measure.

6. 24 in. = _____ ft.
7. 4 yd. = _____ ft.
8. 1 mi. = _____ ft.
9. 1 yd. 11 in. = _____ in.
10. $1\frac{1}{2}$ ft. = _____ in.

Solve the word problems.

11. Greg has a board that 3 yards long. He saws off 2 ft. How long is the board now?

12. Steve has 6 yards of rope. How many inches of rope does he have?

Circle the greater capacity.

13. 5 qt. or 2 gal.
14. 2 cups or 46 fl. oz.
15. 12 pt. or 3 gal.
16. 100 qt. or 125 gal.
17. 160 fl. oz. or 8 pt.

Write an equivalent measure.

18. 3 qt. = _____ pt.
19. 2 cups = _____ fl. oz.
20. $\frac{1}{2}$ gal. = _____ qt.
21. 32 fl. oz. = _____ cups
22. 8 pt. = _____ gal.

Solve the word problems.

23. Beth bought 3 pints of ice cream. How many cups of ice cream does she have?

24. Quinn bought 1 gallon of milk. He drank 1 quart. How many quarts of milk does he have left?

Circle the greater weight.

25. 80 oz. or 6 lb.
26. 3 lb. or 50 oz.
27. 100 oz. or 7 lb.
28. $\frac{1}{2}$ ton or 2,000 lb.
29. 32,000 oz. or 2 tons

Write an equivalent measure.

30. 160 oz. = _____ lb.
31. $2\frac{1}{2}$ tons = _____ lb.
32. 9 lb. 2 oz. = _____ oz.
33. 10,000 lb. = _____ tons
34. 12 lb. = _____ oz.

Solve the word problems.

35. Sally use $\frac{1}{2}$ of a 2 pound block of cheese. How many ounces of cheese is left?

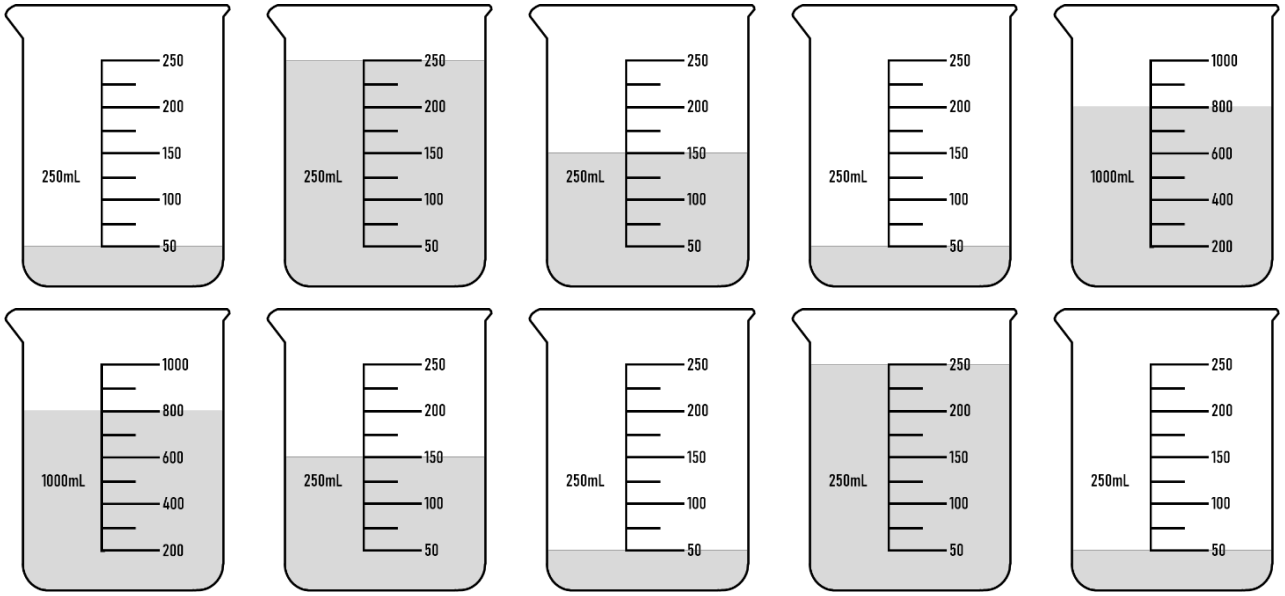
36. Tim has 2 tons of gravel. He used $\frac{1}{2}$ of the gravel. How many pounds of gravel does he have left?

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INTERPRETING DATA

Place the liquid measurements in the beakers on the line plot. Use the line plot to answer the questions.



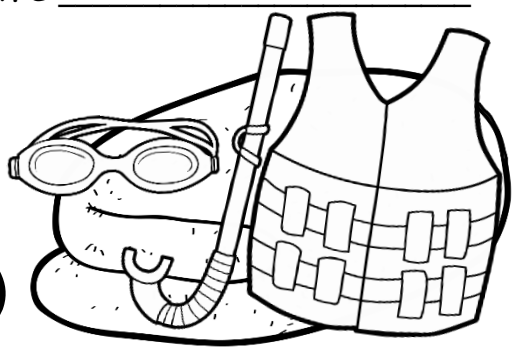
1. 0 mL 1000 mL

2. How many beakers hold at least 500 mL? What fraction of the set is that?	3. How much liquid does the set contain in all?
4. This set of beakers is a sample of a larger set. If the original set was 10 times larger, how much liquid did the original set contain?	5. If the original set was 5 times larger, how much liquid did the original set contain?

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VOLUME & CUBIC UNITS



1. The volume of an object is the amount of....

   A. space it occupies.
   B. weight it can hold.
   C. layers you can put in it.
   D. dimensions it has.

2. Which type of unit might be used to record the volume of a rectangular prism?

   A. inches
   B. square inches
   C. cubic inches
   D. ounces

3. Which could be used to fill about 150 cubes if each cube is one cubic centimeter?

   A. a cereal box
   B. a ring box
   C. a toy box
   D. a refrigerator

4. Bobby needs to pack a box that measured 4 ft. by 2 ft. by 3 ft. with 1 foot cubes. How many 1 foot cubes can he fit into the box?

   A. 9
   B. 12
   C. 24
   D. 48

5. Which of these could possibly be the volume of a cereal box?

   A. 360 square inches
   B. 400 cubic feet
   C. 520 square centimeters
   D. 220 cubic inches

6. Which of these is an accurate way to measure the volume of a rectangular prism on paper?

   A. fill it with water and weight it
   B. measure the length and width, then multiply the two values
   C. pack it with unit cubes with no overlap or space, then count the number of cubic units
   D. measure the length, width, and height, then use the formula V= l x w x h

7. A container measures 4 in. wide by 6 in. long by 10 in. high. How many 1 inch cubes will it hold?

   A. 240
   B. 20
   C. 240^2
   D. 20^2

8. Lanie covers the bottom of a box with 6 one centimeter cubes, leaving no gaps or spaces. If the volume of the box is 30 cm^3 how many more centimeter cubes will she be able to fit inside the box?

   A. 4
   B. 5
   C. 24
   D. 180

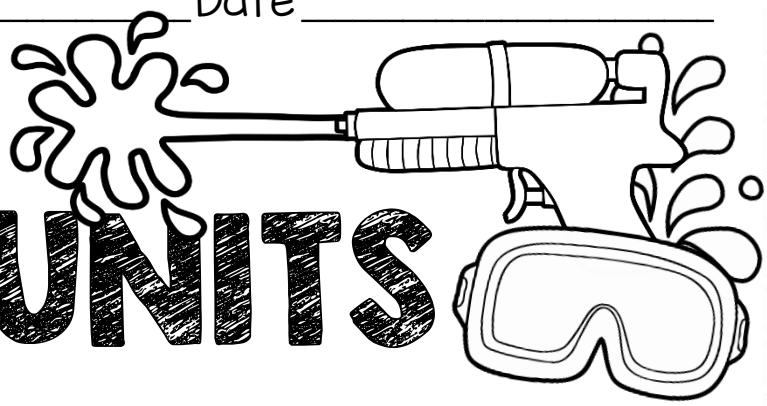
9. A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have...

   A. a volume of n cubic units
   B. one cubic unit
   C. a measure of volume
   D. a length of 1 unit

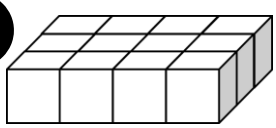
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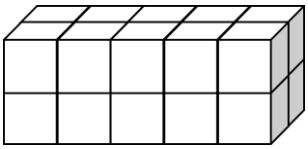
Counting CUBIC UNITS



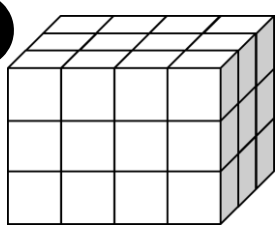
Volume tells the number of cubic units within a solid figure. Each cube represents one cubic unit. To find volume, count the number of cubes within the figure.

1. 

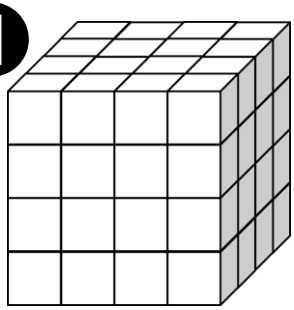
V = _____ cubic units

2. 

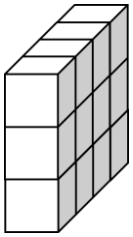
V = _____ cubic units

3. 

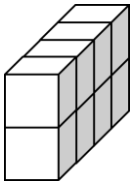
V = _____ cubic units

4. 

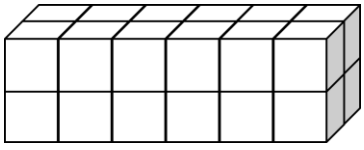
V = _____ cubic units

5. 

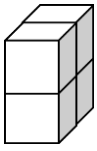
V = _____ cubic units

6. 

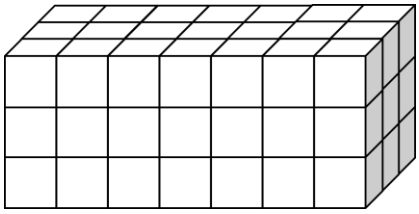
V = _____ cubic units

7. 

V = _____ cubic units

8. 

V = _____ cubic units

9. 

V = _____ cubic units

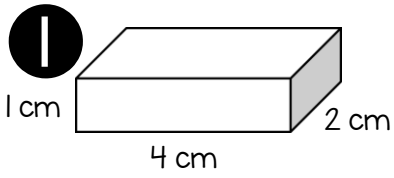
Copyright © Kim Miller

Name _____ Date _____

VOLUME Problem Solving

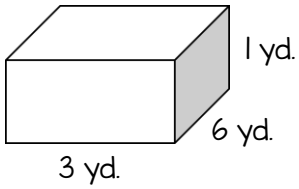
Volume tells the number of cubic units within a solid figure. To find the volume of a rectangular prism, multiply the length by the width by the height (V = l x w x h).

1



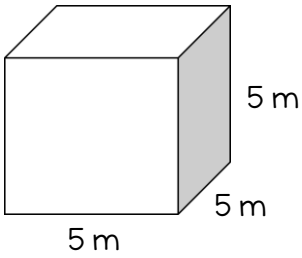
V = _____ cm^3

2



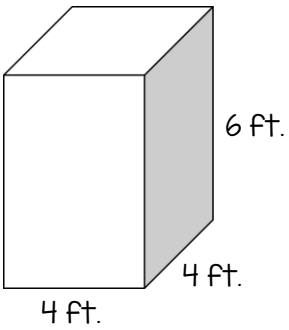
V = _____ $yd.^3$

3



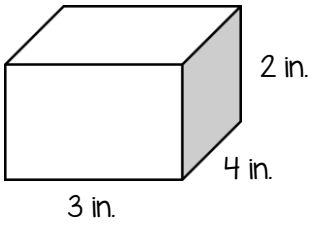
V = _____ m^3

4



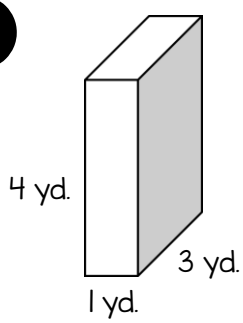
V = _____ $ft.^3$

5



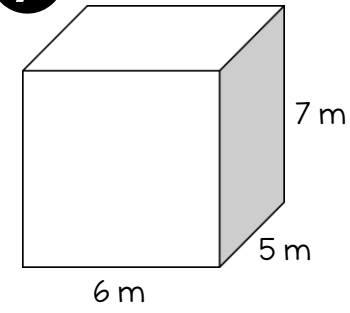
V = _____ $in.^3$

6



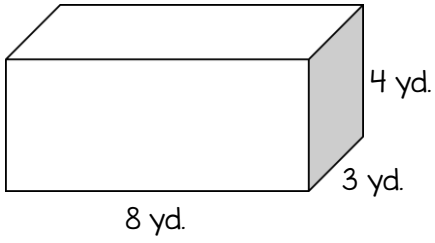
V = _____ $yd.^3$

7



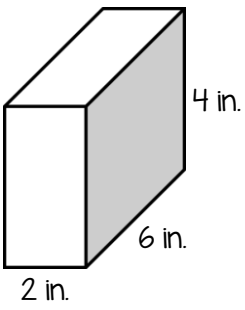
V = _____ m^3

8



V = _____ $yd.^3$

9

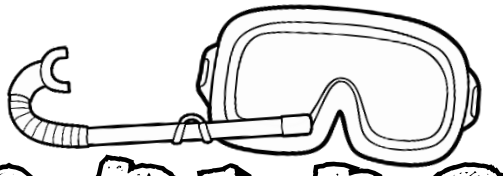


V = _____ $in.^3$

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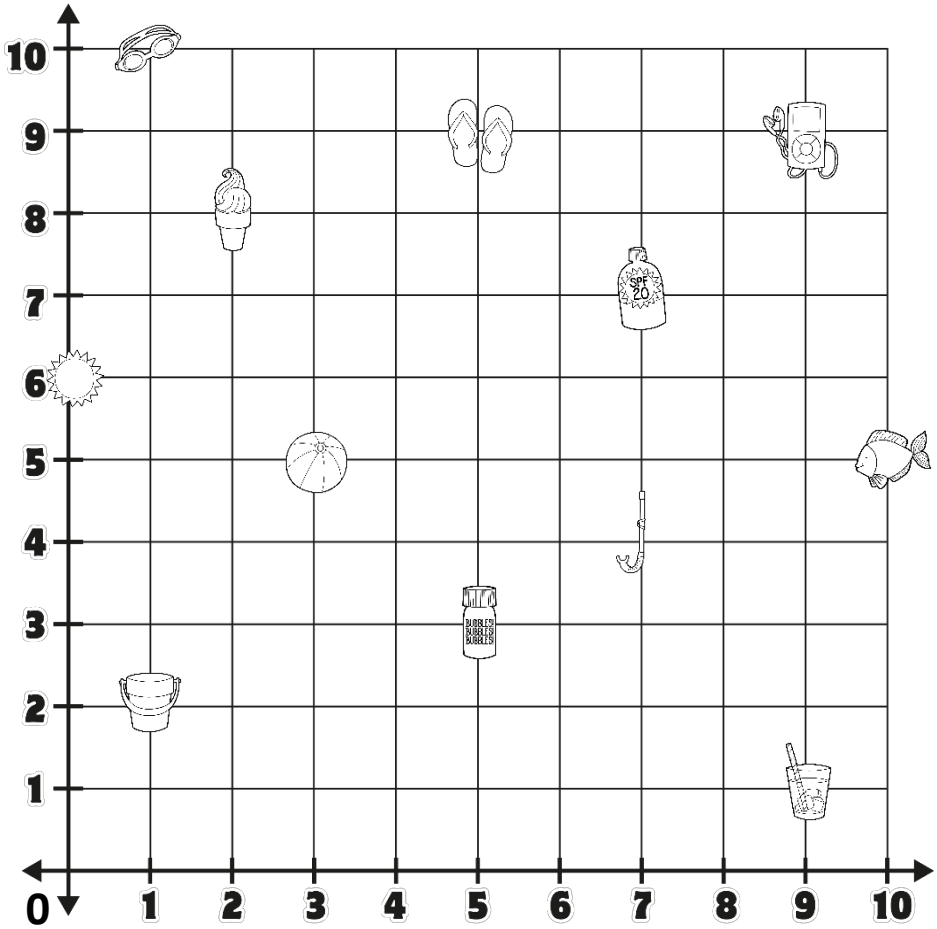
Name _____ Date _____

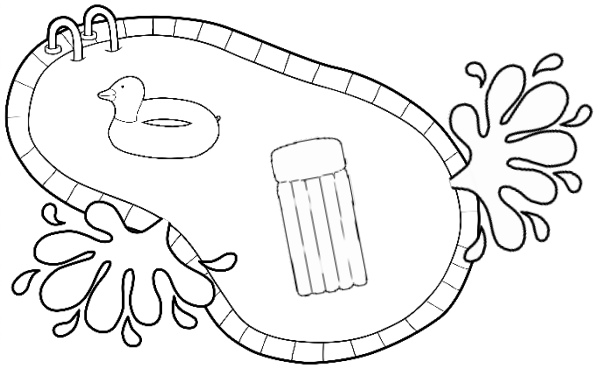
COORDINATE GRIDS



An **ordered pair** can be used to locate a point on a grid or coordinate graph. An ordered pair looks like this: (4,5). The first number tells how many units the point is located to the right of the zero. The second number tells how many units the point is located up from zero. To find (4,5), move right 4, and up 5.

Use the grid to find the location of each summer object.





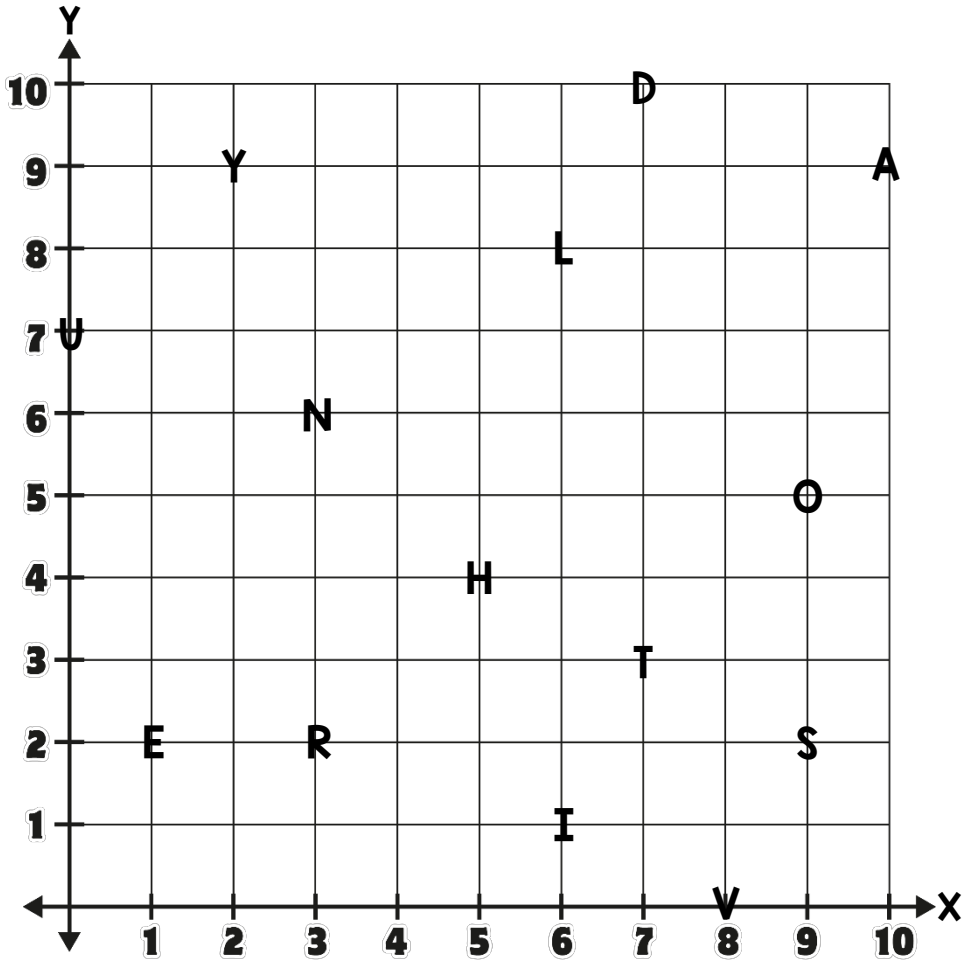
1.  = (____,____)
2.  = (____,____)
3.  = (____,____)
4.  = (____,____)
5.  = (____,____)
6.  = (____,____)
7.  = (____,____)
8.  = (____,____)
9.  = (____,____)
10.  = (____,____)
11.  = (____,____)
12.  = (____,____)

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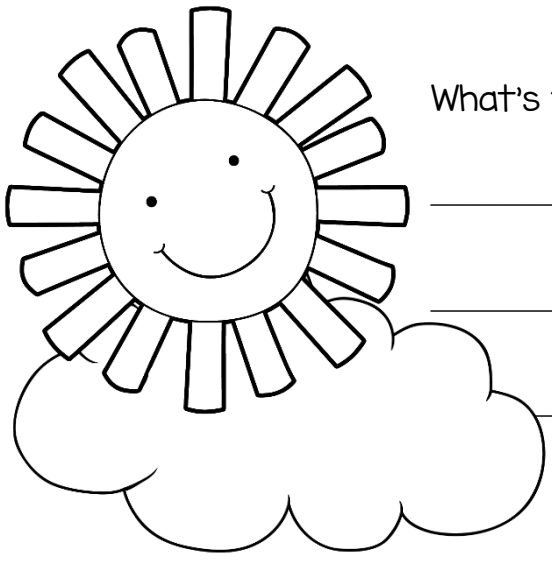
Name _____ Date _____

Graphing Points

Write the letters on the lines for each ordered pair.



1. (3,6) = _____
2. (1,2) = _____
3. (8,0) = _____
4. (1,2) = _____
5. (3,2) = _____
6. (6,8) = _____
7. (1,2) = _____
8. (7,3) = _____
9. (10,9) = _____
10. (3,6) = _____
11. (2,9) = _____
12. (9,5) = _____
13. (3,6) = _____
14. (1,2) = _____
15. (7,10) = _____
16. (0,7) = _____
17. (6,8) = _____
18. (6,8) = _____
19. (2,9) = _____
20. (9,5) = _____
21. (0,7) = _____
22. (3,2) = _____
23. (9,2) = _____
24. (5,4) = _____
25. (6,1) = _____
26. (3,6) = _____
27. (1,2) = _____



What's the secret message?

_____

_____

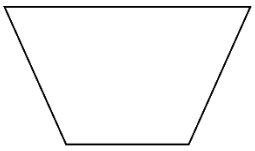
_____

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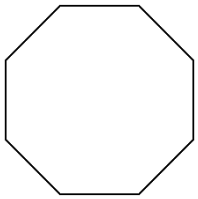
Name _____ Date _____

PROPERTIES OF 2D SHAPES

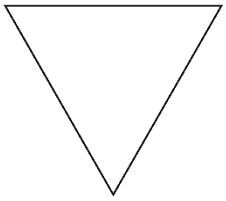
Use the word bank to identify each two-dimensional figure..



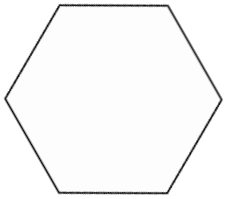
1. _____



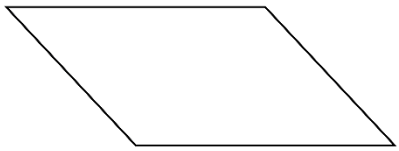
2. _____



3. _____



4. _____



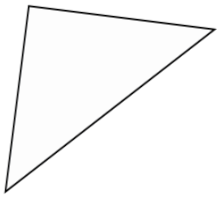
5. _____



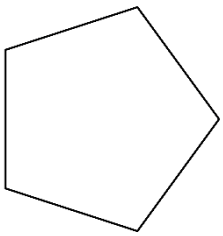
6. _____

Word Bank

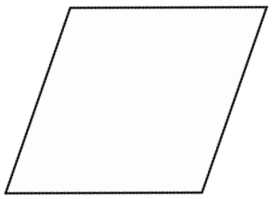
triangle
quadrilateral
square
rectangle
rhombus
parallelogram
pentagon
hexagon
octagon
trapezoid



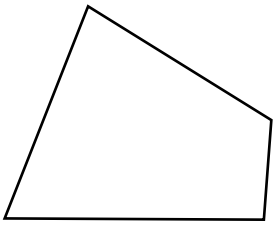
7. _____



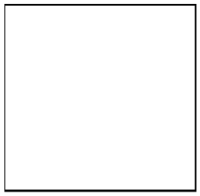
8. _____



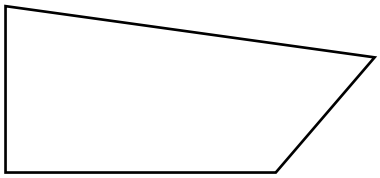
9. _____



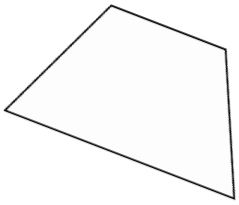
10. _____



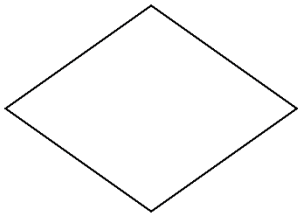
11. _____



12. _____



13. _____



14. _____

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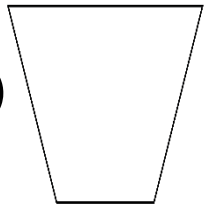
Name _____ Date _____

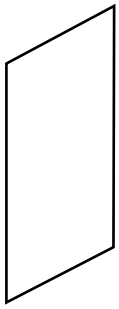
Classifying 2D Shapes

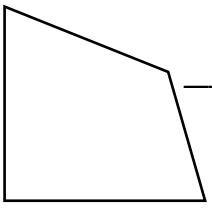
Word Bank

quadrilateral
trapezoid
parallelogram
rectangle
square

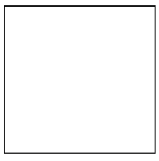
Use the word bank to classify the following quadrilaterals. Some shapes may have more than one correct classification.

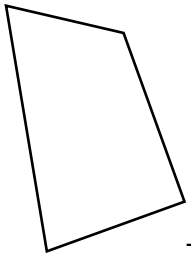
1.  _____

2.  _____

3.  _____

4.  _____

5.  _____

6.  _____

Name all quadrilateral(s) described.

7. I have 4 sides and 4 right angles. What am I?

_____

8. I have 4 congruent sides, and my opposite sides are parallel. What am I?

_____

9. I have 4 sides, 2 acute angles, and two obtuse angles. What am I?

_____

10. I have 4 sides but only 1 pair of parallel sides. What am I?

_____

11. I have 4 sides, and opposite sides are parallel. What am I?

_____

12. I have 4 congruent sides, and my opposite angles are equal. What am I?

_____

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Answer Keys

Page 1: Find the Value

1. C
2. A
3. B
4. D
5. C
6. A
7. D
8. A
9. C
10. C

Page 2: Multiply & Divide Powers of 10

1. D
2. B
3. C
4. A
5. B
6. D
7. A
8. C
9. D
10. B
11. C
12. C

Page 3: Read & Write Decimals

1. A
2. D
3. B
4. C
5. A
6. C
7. A
8. D
9. D
10. B
11. D
12. C

Page 4: Comparing & Ordering Decimals

1. C
2. D
3. A
4. D
5. B
6. C
7. A
8. D
9. B

Page 5: Rounding Decimals

1. 4.8
2. 50.93
3. 75.2
4. 6.38
5. 1.9
6. B
7. B
8. C
9. C
10. 52.3 seconds

Page 6: Multiplying Whole Numbers

1. 480
2. 138
3. 2,376
4. 40,596
5. 16,128
6. 40,040
7. 9,044
8. 59,340
9. 21,714
10. 196,317
11. 161,238
12. 231,557

Page 7: Dividing Whole Numbers

1. 60 blueberries
2. 12 rows
3. 4 apples
4. 22
5. C
6. 504
7. D
8. 302
9. 17 tickets
10. 34, 372 or 372, 34
11. 12 buses
12. C

Page 8: More Work With Decimals

1. 10.16
2. 29.54 seconds
3. 17.01 ft.
4. B
5. 3.25
6. Add $0.98 six times, Multiply $0.98 by six
7. 1.875
8. 30.2 degrees
9. 0.17
10. 2.75 cups
11. 10.4 $in.^2$
12. C

Page 9: Order of Operations

1. C
2. A
3. B
4. A
5. B
6. C
7. 1
8. 21
9. 18
10. 9
11. 13
12. 48
13. 66
14. 8

Page 10: Numerical Expressions

1. B
2. A
3. C
4. A
5. C
6. A
7. A
8. A
9. B
10. C
11. A
12. A
13. B
14. B
15. A
16. A

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Answer Keys

Page 11: Analyzing Patterns

1. 3, 6, 24, 36
2. 3, 7, 14, 23
3. - 1, ÷ 5
4. x 4, - 2
5. (r - 1) ÷ 5 = s
6. (o + 4) ÷ 2 = s
7. g ÷ 10 = h
8. 1 ÷ 3 = m
9. A
10. D

Page 12: Add & Subtract Fractions

1. C
2. 3/4
3. 5/9
4. 8 5/8
5. 3 1/6
6. 2 1/3
7. 3
8. 1 1/4
9. 0
10. 6 7/8
11. 1
12. 3 1/4
13. 4 1/2
14. 1 7/8

Page 13: Problem Solving With Fractions

1. 1 1/3 cups
2. 17/21 bag
3. 3 4/5 miles
4. 7/15 students passed
5. 4 7/20 pounds
6. 5/8 liters
7. 1 1/12 cups
8. 1 1/24 yards
9. 3/8 quart

Page 14: Interpreting Fractions

1. 5 2/5 boxes
2. 1/5
3. 1 1/4 cookies
4. 22 1/2 minutes
5. 3/10 box
6. $2.78
7. 1 3/4 packs
8. 1 1/2 hours
9. 5 5/9 pounds

Page 15: Multiplying Fractions

1. 2/5
2. 1 11/12
3. 5 5/6
4. 12
5. 7 boxes
6. 64
7. $20
8. 5 teaspoons
9. 797 1/4 feet
10. 1 1/4 cups

Page 16: Multiply to Find Area

1. 15 2/5 cm^2
2. 28 3/4 yd^2
3. 9 1/4 m^2
4. 14 ft^2
5. 24 3/4 cm^2
6. 3 2/3 yd^2
7. 8 1/8 cm^2
8. 30 1/4 m^2
9. 33 3/4 cm^2
10. 33 ft^2
11. 16 7/8 tiles
12. 18 8/9 yd^2

Page 17: Multiplication as Scaling

1. B, 1/8 is smaller than 1/2
2. A, 4/5 of 6 would be larger than 2
3. A, half of 9 would be less than 9
4. A
5. A
6. D
7. less than 2 hours
8. both runners
9. 11 1/5 inches

Page 18: Real World Problem Solving

1. 2 ounces
2. 1 2/5 buses
3. 1 5/6 miles
4. 1/4 bucket
5. 4 floats
6. $4
7. 3 drum players
8. 3/4 of an hour
9. 3 ft^2
10. 1/5 cup of sugar
11. 4
12. 1 3/4 bags

Page 19: Dividing Fractions

1. B
2. B
3. 13 1/2
4. 3/20
5. 15
6. 2/21
7. 4
8. 1/6
9. 10
10. 1/8 chocolate cake
11. 1/2 cup of marshmallows
12. 25 pieces of wood
13. 1 13/20 pounds
14. 2 pots
15. 8 pieces

Page 20: Converting Units of Measurement

1. 38 in.
2. 1 ft.
3. 2 ft.
4. 5 ft.
5. 3 mi.
6. 2 ft.
7. 12 ft.
8. 5,280 ft.
9. 47 in.
10. 18 in.
11. 7 ft.
12. 216 in.
13. 2 gal.
14. 46 fl. oz.
15. 3 gal.

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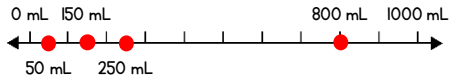
Answer Keys

Page 20: Converting Units of Measurement (cont.)

16. 125 gal.
17. 160 fl. oz.
18. 6 pt.
19. 16 fl. oz.
20. 2 qt.
21. 4 cups
22. 1 gal.
23. 6 cups
24. 3 qt.
25. 6 lb.
26. 50 oz.
27. 7 lb.
28. 1,000 lb.
29. 2 tons
30. 10 lb.
31. 5,000 lb.
32. 146 oz.
33. 5 tons
34. 192 oz.
35. 16 oz.
36. 2,000 lb.

Page 21: Interpreting Data

1.



2. 2 beakers, 1/5 of the beakers
3. 2600 mL
4. 26,000 mL
5. 13,000 mL

Page 22: Volume & Cubic Units

1. A
2. C
3. A
4. C
5. D
6. D
7. A
8. C
9. A

Page 23: Counting Cubic Units

1. 12
2. 20
3. 56
4. 64
5. 12
6. 8
7. 24
8. 4
9. 63

Page 24: Volume Problem Solving

1. 8
2. 18
3. 125
4. 96
5. 24
6. 12
7. 210
8. 96
9. 48

Page 25: Coordinate Grids

1. 9,1
2. 7,7
3. 1,10
4. 5,9
5. 1,2
6. 2,8
7. 3,5
8. 7,4
9. 0,6
10. 9,9
11. 10,5
12. 5,3

Page 26: Graphing Points

1. N
2. E
3. V
4. E
5. R
6. L
7. E
8. T
9. A
10. N
11. Y
12. O
13. N
14. E
15. D
16. U
17. L
18. L
19. Y
20. O
21. U
22. R
23. S
24. H
25. I
26. N
27. E

Page 26: Graphing Points (cont.)

Secret Message: Never Let Anyone Dull Your Shine

Page 27: Properties of 2D Shapes

1. trapezoid
2. octagon
3. triangle
4. hexagon
5. parallelogram
6. rectangle
7. triangle
8. pentagon
9. rhombus
10. quadrilateral
11. square
12. quadrilateral
13. trapezoid
14. rhombus

Page 28: Classifying 2D Shapes

1. trapezoid
2. parallelogram
3. quadrilateral
4. rectangle
5. square
6. quadrilateral
7. rectangle or square
8. square
9. parallelogram or rhombus
10. trapezoid
11. square, rectangle, parallelogram, or rhombus
12. square, rectangle, parallelogram, or rhombus

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How to be a MATH PERSON:

Step 1:

Do math

(any type)

Step 2:

Be a person