# Rising 6th grade Honors Summer Math Packet

(Suggested Pacing for your summer math work)

Week 1 - Monday, Jun 29, 2026 - Sunday, Jul 5, 2026 Pre-Module Assessment M1 # 1- 4

Week 2 - Monday, Jul 6, 2026- Sunday Jul 12, 2026 Pre- Module Assessment M 2&3 # 1- 5

Week 3 - Monday Jul 13, 2026 - Sunday Jul 19, 2026 Pre- Module Assessment M 4&5 # 1-5

Week 4 - Monday Jul 20, 2026 - Sunday Jul 26, 2026 Pre- Module Assessment M6 # 1 - 5

Week 5 - Monday Jul 27, 2026 - Sunday Aug 2, 2026 Worksheet - Add, Subtract, Multiply and Divide Decimals (2 worksheets)

Week 6 - Monday Aug 3, 2026 - Sunday Aug 9, 2026 Worksheet - Multiply (2 digit) and Divide with Decimals (2 worksheets)

Week 7 - Monday Aug 10, 2026 - Sunday Aug 16, 2026 Worksheet - Add, Subtract, Multiply and Divide Fractions and Order of Operations (3 worksheets)

Week 8 - Monday, Aug 17, 2026 - Sunday Aug 23, 2026 Worksheet - Fractions - Simplify (2 worksheet)

Have a wonderful summer !! Mrs. Forsyth 🙂



# Pre-Module Assessment

Name _____ Date _____

1. Consider the figure.




Square $A$ Square $B$

Which is a ratio of the side length of square $A$ to the side length of square $B$? Choose **all** that apply.

A. 1:2

B. 2:1

C. 7:14

D. 14:7

E. 14:28

F. 28:14

2. For every 15 black beads on a necklace, there are 5 gold beads. What is the unit rate associated with the ratio of the number of black beads to the number of gold beads?

The unit rate is _____.

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3. A falcon, an eagle, and a dove fly at constant rates.
   - The falcon flies 25 miles in 30 minutes.
   - The eagle flies 18 miles in 35 minutes.
   - The dove flies 10 miles in 15 minutes.

   Circle an answer choice to complete the sentence.

   The _____ flies at the slowest rate.

   falcon

   eagle

   dove

4. The table shows the ratio relationship between the number of cups of sugar and the number of cups of milk for a recipe. Complete the table.

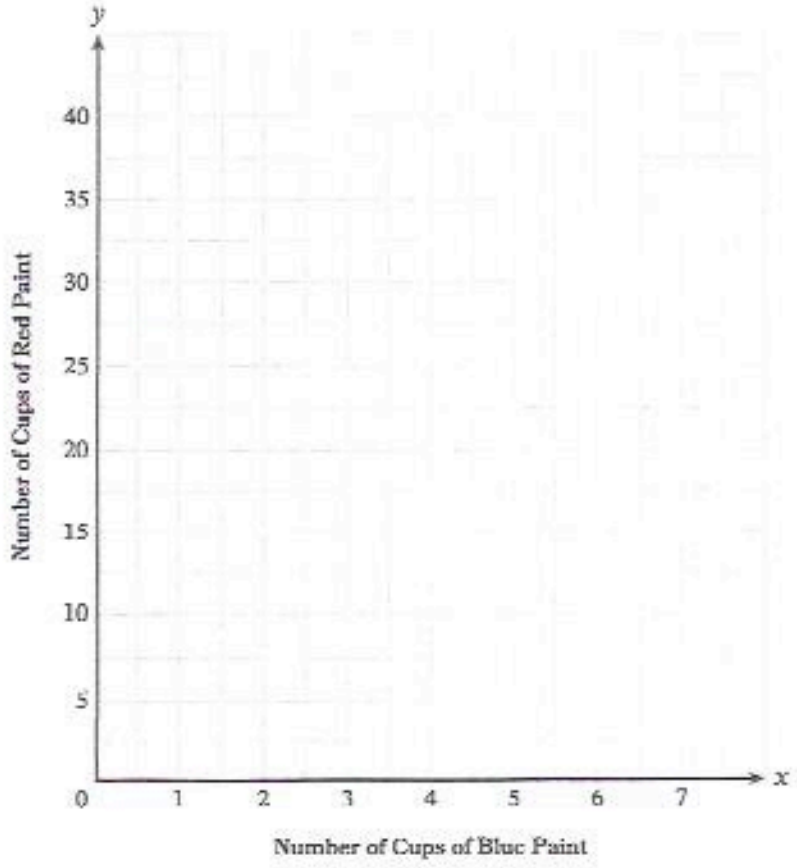
| Number of Cups of Sugar, $x$ | Number of Cups of Milk, $y$ |
|---|---|
| 1 | |
| 2 | 12 |
| | 24 |
| 6 | |

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5. Consider the table shown. It describes the ratio relationship between the number of cups of blue paint and the number of cups of red paint to make a shade of purple.

| Number of Cups of Blue Paint, $x$ | Number of Cups of Red Paint, $y$ |
|---|---|
| 1 | 5 |
| 2 | 10 |
| 4 | 20 |
| 6 | 30 |

Plot four points in the coordinate plane that represent the pairs of numbers shown in the table.




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6. Consider the relationship between time $t$ in hours and distance $d$ in miles represented in the table.

| Time, $t$ (hours) | Distance, $d$ (miles) |
|---|---|
| 4 | 48 |
| 6 | 72 |
| 8 | 96 |

Which equation represents the relationship between $t$ and $d$?

A. $t = \frac{12}{d}$

B. $t = 12d$

C. $d = 12t$

D. $d = \frac{12}{t}$

7. Mr. Banks stops at a gas station that charges \$3.00 per gallon of gas. Mr. Banks spends \$36.00 on gas.

**Part A**

Write an equation that could be used to find the number of gallons of gas $g$ that Mr. Banks buys for \$36.00.

_____

**Part B**

Solve your equation from part A to find the number of gallons of gas Mr. Banks buys.

Mr. Banks buys _____ gallons of gas.

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# Pre-Module Assessment

Name _____ Date _____

1. Complete each number sentence to make it true. Write one number from the given answer choices in each box.

$2 \div 6 = \frac{\square}{\square}$

$\frac{1}{7} = \square \div \square$

**Answer Choices**

| | | | |
|---|---|---|---|
| 1 | 2 | 6 | 7 |

2. Divide.

$1{,}938 \div 24 =$ _____

3. Evaluate the expression.

$\frac{1}{2} + 2(3.5) - \frac{2}{5}$

_____

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4. A city has an elevation of 3,869 meters above sea level, where 3,869 represents the city's elevation. What number represents an elevation of 112 meters below sea level?

_____

5. Evaluate the expression.

$-(-6)$

_____

6. Order the numbers from least to greatest. Write one number from the given answer choices in each box.

| Least | | | | | Greatest |
|---|---|---|---|---|---|
| | | | | | |

**Answer Choices**

| | | | | | |
|---|---|---|---|---|---|
| $\lvert 0.7 \rvert$ | $-2\frac{1}{3}$ | $-6.4$ | $\left\lvert \frac{13}{8} \right\rvert$ | 1 | $\left\lvert -\frac{2}{9} \right\rvert$ |

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7. Determine which expression represents each description. Write one expression from the given answer choices in each box.

| Description | Expression |
|---|---|
| The product of 5 and the sum of a number and 2 | |
| The quotient of 5 and the sum of a number and 2 | |
| Two times the difference of a number and 5 | |
| The sum of a number and 5, doubled | |

**Answer Choices**

| | | | |
|---|---|---|---|
| $2(x + 5)$ | $2(x - 5)$ | $5(x + 2)$ | $5 \div (x + 2)$ |

8. Solve.

$x + 4 = 15$

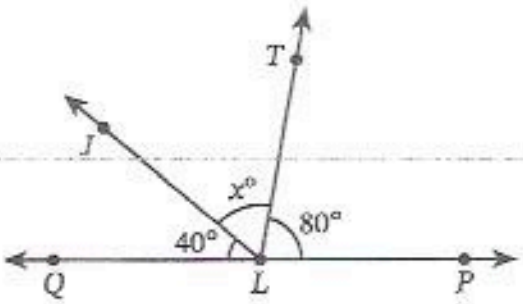
_____

9. A shop sells tacos for \$3.75 each. On Monday, the shop makes \$240 from selling tacos. How many tacos does the shop sell on Monday?

_____ tacos

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10. The diagram shows $\overleftrightarrow{QP}$, $\overrightarrow{IJ}$, and $\overrightarrow{LT}$ intersecting at point $L$. The measure of $\angle QLP$ is 180°.




Solve for $x$.

_____

11. Which of these expressions are equivalent to $3(x + 2y) + 4x + 6y$? Choose **all** that apply.

A. $7x + 8y$

B. $7x + 12y$

C. $3x + 2y + 4x + 6y$

D. $3x + 6y + 4x + 6y$

E. $3(x + 2y) + 2(2x + 3y)$

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12. Choose **all** the values that make the inequality true.

$$4x + 1 > 9$$

A. 0

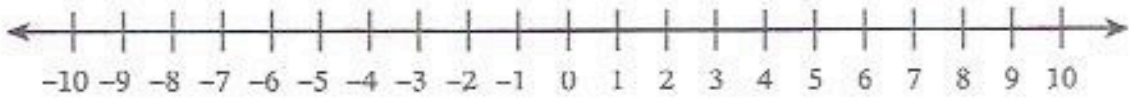
B. 2

C. 3

D. $\frac{5}{3}$

E. 8

13. Graph the solutions to $x < 7$ on the number line.




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# Pre-Module Assessment

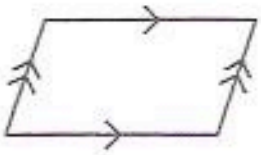
Name _____ Date _____

1. Match each shape with its most specific name. Write the letter that corresponds to a shape in each box.

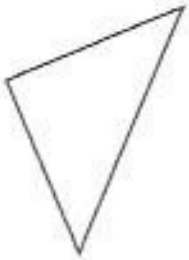
| Shape Name | Shape |
|---|---|
| hexagon | |
| octagon | |
| parallelogram | |
| pentagon | |
| trapezoid | |
| triangle | |

**Answer Choices**

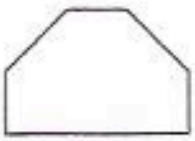
A.



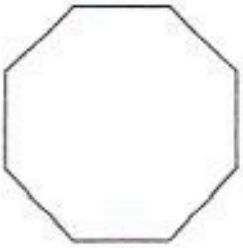
B.



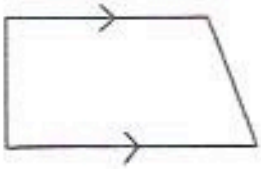
C.



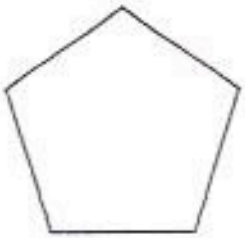
D.



E.



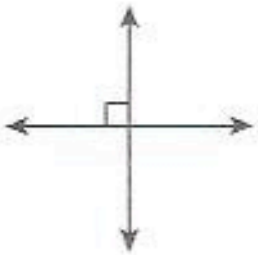
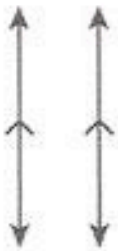
F.



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2. Identify the lines in each figure as parallel, perpendicular, or neither parallel nor perpendicular. Write the description from the given answer choices in each box.

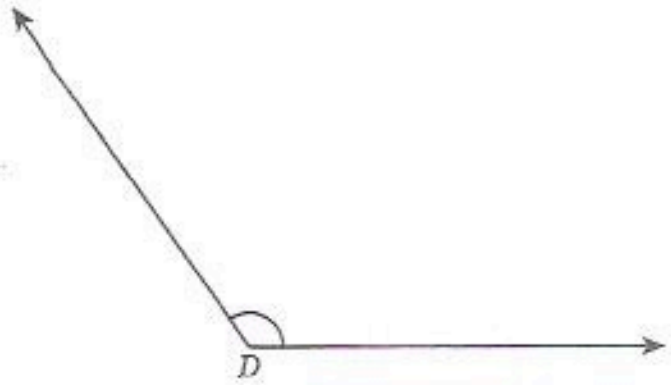
| Figure | Shape |
| --- | --- |
|  | |
|  | |
|  | |

**Answer Choices**

| | | |
| --- | --- | --- |
| parallel | perpendicular | neither parallel nor perpendicular |

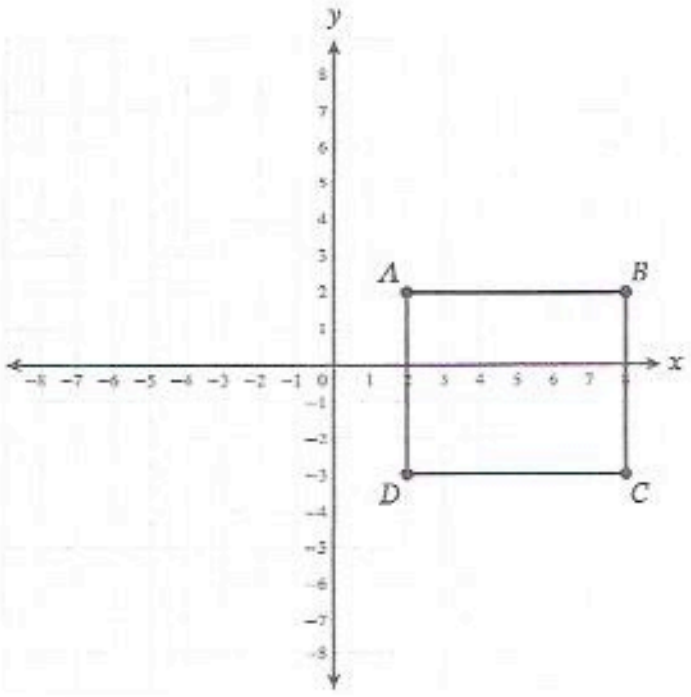
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3. Use a protractor to find the measure of $\angle D$.




The measure of $\angle D$ is _____°.

4. Consider rectangle $ABCD$ plotted in the coordinate plane.

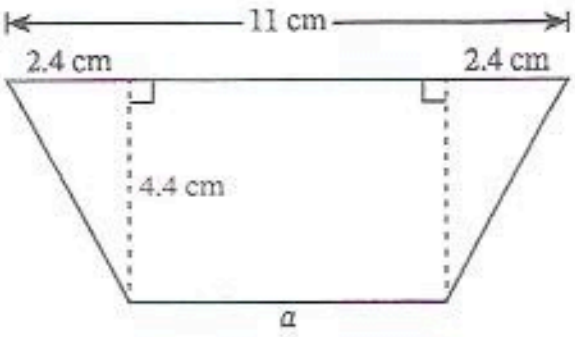



Find the area of rectangle $ABCD$.

_____ square units

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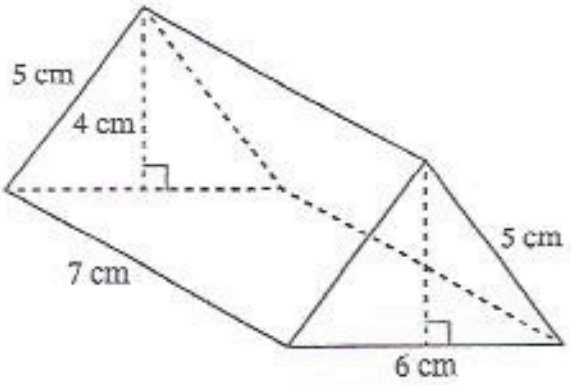
5. Consider the polygon shown.




What is the area of the polygon?

_____ square centimeters

6. Consider the right triangular prism shown.

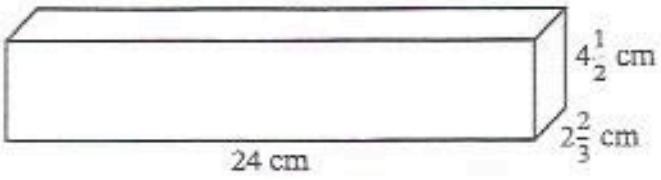



What is the surface area of the right triangular prism?

_____ square centimeters

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7. Consider the right rectangular prism.




What is the volume of the right rectangular prism?

_____ cubic centimeters

8. Which expressions are equivalent to "103% of $d$"? Choose **all** that apply.

A. $\frac{103}{100d}$

B. $\frac{103}{100}d$

C. $1.03d$

D. $10.3d$

E. $103d$

9. Jada has 6 multicolored sports bands. She says that 24% of her sports bands are multicolored. What is the total number of sports bands Jada has?

_____ sports bands

10. Abdul fills his bird feeder with $2\frac{1}{2}$ cups of birdseed 3 times a week. The bag of birdseed he buys contains 30 cups of birdseed. Using the contents of the bag, for how many weeks can Abdul fill his bird feeder?

_____ weeks

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# Pre-Module Assessment

Name _____ Date _____

1. The rectangle is divided into equal-sized parts.



What fraction of the rectangle is shaded?

A. $\frac{1}{6}$

B. $\frac{2}{4}$

C. $\frac{2}{6}$

D. $\frac{4}{6}$

2. Write each fraction in decimal form. Use bar notation if appropriate.

| Fraction | Decimal |
|---|---|
| $\frac{1}{8}$ | |
| $\frac{2}{9}$ | |

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3. Jonas makes school spirit bracelets. Out of every 12 bracelets, 7 are green. He makes 60 bracelets. How many bracelets are green?

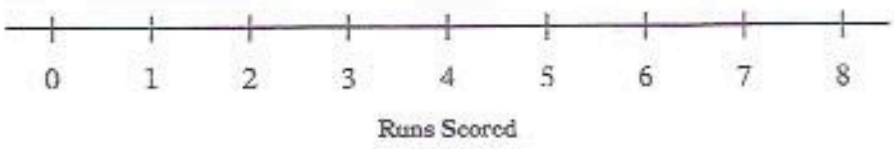
   There are _____ green bracelets.

4. A baseball team plays 20 games. The tally chart shows the number of runs scored by the baseball team in each game.

| Runs Scored | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| Tally | \| | \|\|\| | | \|\|\|\| | \|\| | \|\| | \|\|\|\| | \| | \|\| |

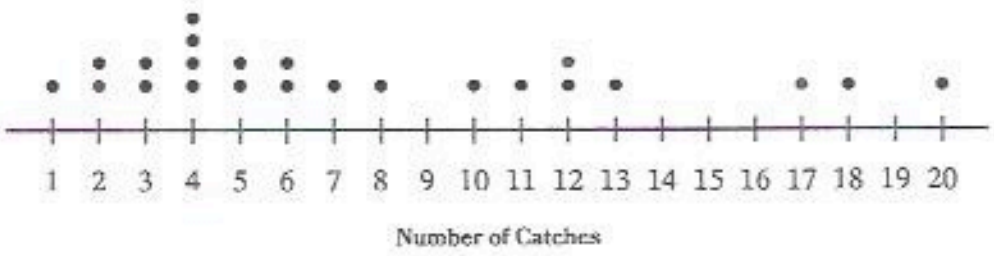
Create a dot plot by using this data set.

**Baseball Games**




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5. Each day, Maya throws a ball to her dog 25 times. She keeps track of how many times her dog catches the ball. The results are shown in the dot plot.




Circle an answer choice from the list to make the statements true.

The data distribution is ___(A)___. There is a peak at ___(B)___ catches. The largest gap is from ___(C)___ catches.

| A | B | C |
|---|---|---|
| approximately symmetric | 1 | 8 to 10 |
| skewed to the left | 4 | 13 to 17 |
| skewed to the right | 12 | 18 to 20 |
| | 20 | |

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6. Ava records the weights in grams of 16 potatoes. The weight of each potato is shown.

155 80 122 141 111 95 124 145 102 170 137 132 62 110 149 128

**Part A**

What is the median weight of the potatoes?

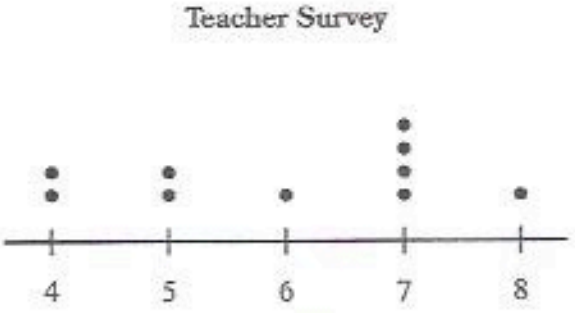
_____ grams

**Part B**

What is the interquartile range of the weights?

_____ grams

7. Teachers at a school were surveyed about the number of markers they use. The results of the survey are shown in the dot plot.




**Part A**

What is the mean number of markers used by the teachers?

_____ markers

**Part B**

What is the mean absolute deviation for the number of markers used by the teachers?

_____ markers

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8. The principal of an elementary school records the number of students in every class in the school.

   - The mean number of students in a class is 28 students.
   - The mean absolute deviation is 3 students.

   Which statement must be true?

   A. About half of the classes have at least 28 students.

   B. About 50% of the classes have between 25 and 31 students.

   C. On average, the number of students in each class differs from the mean by 3.

   D. There are at least 28 students in each of the classes in the school.

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# Adding/Subtracting Decimals (A)

Calculate each sum or difference.

$800.54 + 90.52 =$

$343.4 + 5.607 =$

$94.9 - 41.871 =$

$809.144 - 15.96 =$

$803.309 - 133.36 =$

$767.3 - 24.9 =$

$489.08 - 4.2 =$

$921.74 + 2.7 =$

$384.94 + 17.348 =$

$260.65 - 40.9 =$

$67.1 - 1.19 =$

$35.438 - 17.2 =$

$686.4 - 199.61 =$

$6.356 + 5.8 =$

$75.715 + 30.5 =$

$89.88 - 48.8 =$

$3.7 + 1.5 =$

$64.32 + 21.63 =$

$875.75 + 26.64 =$

$656.86 + 46.37 =$

# Multiply and Divide by Positive Powers of Ten (A)

Find each product or quotient.

$6.3 \div 100 =$

$7.129 \times 100 =$

$2.97 \div 1{,}000 =$

$0 \times 1{,}000 =$

$0.193 \div 10 =$

$2.3979 \div 1{,}000 =$

$2.3 \times 1{,}000 =$

$1.175 \div 100 =$

$8.4 \times 1{,}000 =$

$9.1 \times 1{,}000 =$

$9.6 \times 1{,}000 =$

$8.425 \times 1{,}000 =$

$8.3 \div 1{,}000 =$

$1.13 \div 100 =$

$5.6629 \div 100 =$

$1.88 \div 1{,}000 =$

$0.1804 \div 1{,}000 =$

$5.2 \div 100 =$

$8.84 \times 10 =$

$9.63 \times 1{,}000 =$

# Multiplying 2-Digit by 2-Digit Numbers with Various Decimal Places (A)

Name: _____ Date: _____

Calculate each product.

| | | | | |
|---|---|---|---|---|
| 2.3 × 4.6 | 0.67 × 0.50 | 0.27 × 73 | 2.8 × 32 | 3.1 × 94 |
| 6.5 × 6.6 | 3.3 × 0.89 | 48 × 48 | 5.4 × 0.19 | 47 × 14 |
| 5.8 × 4.3 | 0.46 × 0.50 | 53 × 7.8 | 3.0 × 0.49 | 87 × 0.21 |
| 47 × 0.12 | 84 × 18 | 6.7 × 0.95 | 0.83 × 8.9 | 1.2 × 0.54 |
| 0.13 × 4.3 | 0.89 × 0.34 | 0.31 × 0.93 | 8.1 × 16 | 13 × 0.76 |

# Dividing Decimals by Whole Numbers (A)

Find each quotient.

| | | | |
|---|---|---|---|
| $6\overline{)1.29}$ | $6\overline{)9.51}$ | $5\overline{)1.26}$ | $6\overline{)7.79}$ |
| $2\overline{)9.70}$ | $5\overline{)3.76}$ | $4\overline{)7.77}$ | $2\overline{)2.12}$ |
| $9\overline{)7.66}$ | $8\overline{)5.09}$ | $8\overline{)1.81}$ | $2\overline{)3.70}$ |

# Adding and Subtracting Two Mixed Fractions (A)

Name: _____ Date: _____ Score: _____

Calculate each result.

1. $9\frac{1}{5} - 1\frac{6}{10} = \frac{46}{5} - \frac{16}{10} = \frac{92}{10} - \frac{16}{10} = \frac{76}{10} = \frac{38}{5} = 7\frac{3}{5}$

Convert ↑ Denominator Solve Simplify Convert ↓

2. $5\frac{4}{6} + 2\frac{10}{18} =$ ___ + ___ = ___ + ___ = ___ = ___ = ___

3. $7\frac{2}{15} - 2\frac{2}{3} =$ ___ − ___ = ___ − ___ = ___ = ___

4. $5\frac{1}{4} - \frac{5}{8} =$ ___ − ___ = ___ − ___ = ___ = ___

5. $9\frac{10}{20} - 1\frac{2}{4} =$ ___ − ___ = ___ − ___ = ___ = ___ =

6. $5\frac{1}{3} - 1\frac{4}{12} =$ ___ − ___ = ___ − ___ = ___ = ___ =

7. $3\frac{1}{2} + 9\frac{3}{6} =$ ___ + ___ = ___ + ___ = ___ = ___ =

8. $3\frac{1}{6} + 4\frac{1}{12} =$ ___ + ___ = ___ + ___ = ___ = ___ = ___

9. $9\frac{3}{5} + 4\frac{4}{10} =$ ___ + ___ = ___ + ___ = ___ = ___ =

10. $\frac{2}{3} + 1\frac{11}{18} =$ ___ + ___ = ___ + ___ = ___ = ___

# Multiplying and Dividing Mixed Fractions (A)

Name: _____ Date: _____ Score: _____

Calculate each result.

1. $1\frac{7}{8} \times 1\frac{2}{5} = \frac{15}{8} \times \frac{7}{5} = \frac{10}{40} = \frac{21}{8} = 2\frac{5}{8}$

   Convert ↑ Result Simplify Convert ↓

2. $4\frac{7}{8} \div 1\frac{3}{4} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

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

4. $4\frac{2}{3} \div 2\frac{1}{9} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

5. $5\frac{3}{5} \times 2\frac{4}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

6. $5\frac{4}{7} \div 1\frac{4}{9} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

7. $4\frac{1}{7} \times 3\frac{2}{3} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

8. $1\frac{1}{3} \times 1\frac{1}{4} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

9. $2\frac{1}{2} \div 2\frac{1}{2} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

10. $1\frac{2}{9} \div 5\frac{1}{2} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

# Order of Operations (A)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(3 \times 4) \div (7 + 9 - 10)$

$8 \times (10 - 6) \div 2 + 4$

$(10 \div 2) \times 7 + 5 - 4$

$8 \div (7 - 3) \times (4 + 6)$

$6 \times (8 - 3 + 5) \div 10$

$10 - 6 \times 5 \div (2 + 4)$

$(10 - 6 + 8 \div 2) \times 3$

$(4 + 8 \div 2 - 6) \times 10$

$7 \div (4 \times 2 + 9 - 10)$

$((10 - 6 + 5) \div 9) \times 2$

Name : _____

# Simplifying Proper Fractions

Sheet 1

A) Reduce each proper fraction to its lowest terms.

1) $\frac{3}{6}$ =

2) $\frac{32}{56}$ =

3) $\frac{30}{48}$ =

4) $\frac{9}{81}$ =

5) $\frac{6}{22}$ =

6) $\frac{4}{8}$ =

7) $\frac{5}{35}$ =

8) $\frac{27}{51}$ =

B) 1) Which of the following fractions is the simplest form of $\frac{7}{14}$ ?

a) $\frac{1}{2}$ b) $\frac{2}{3}$ c) $\frac{5}{6}$ d) $\frac{1}{7}$

2) Which of the following fractions is the simplest form of $\frac{18}{40}$ ?

a) $\frac{9}{10}$ b) $\frac{6}{20}$ c) $\frac{9}{20}$ d) $\frac{6}{15}$

Name : _____

# Simplifying Fractions

Sheet 1

Reduce the following to their lowest terms.

1) $\frac{2}{8}$ =

2) $\frac{9}{6}$ =

3) $1\frac{15}{20}$ =

4) $\frac{7}{14}$ =

5) $\frac{40}{25}$ =

6) $15\frac{4}{6}$ =

7) $\frac{8}{28}$ =

8) $\frac{18}{4}$ =

9) $3\frac{6}{16}$ =

10) $\frac{50}{40}$ =

11) $\frac{51}{9}$ =

12) $9\frac{5}{10}$ =

13) $\frac{2}{24}$ =

14) $\frac{60}{42}$ =