

McRuffy Press Fourth Grade Color Math Test 7

Materials: Test pages (Resource pack, 3 sheets)

Test Directions Page 1:

1. Problem solving: **Solve the problems.**
2. Fractions to decimals: **Change the fractions to decimals.**
3. Adding fractions with unlike denominators: **Add the fractions. Remember the denominators must be the same.**
4. Simplifying fractions: **Write the fractions in simplest form.**

Page 2:

1. Prime numbers: **Mark the numbers as prime or composite.**
2. Properties: **Match the properties to the examples.**
3. Factoring: **Write the factors for each number.**
4. Linear equations: **Match the coordinates to the problems.**
5. Solids: **Complete the chart for the shapes.**

Page 3:

1. Venn Diagrams: **Follow the rules to place numbers on the Venn diagrams.**
2. Line Chart: **Use the line chart to answer questions. Read the directions on the page to find abbreviations for the answers.**

Test Answers Page 1

$$\begin{array}{r} 8,356,734 \\ -4,267,554 \\ \hline \end{array}$$

$$4,089,180$$

$$\begin{array}{r} 3,789,547 \\ +6,782,124 \\ \hline \end{array}$$

$$10,571,671$$

$$\begin{array}{r} 6,000 \\ \times 200 \\ \hline \end{array}$$

$$1,200,000$$

$$\begin{array}{r} 4,118,967 \\ -2,475,562 \\ \hline \end{array}$$

$$1,643,405$$

$$\begin{array}{r} 5,345,568 \\ +9,231,957 \\ \hline \end{array}$$

$$14,577,525$$

$$\begin{array}{r} 52,000 \\ \times 300 \\ \hline \end{array}$$

$$15,600,000$$

$$\begin{array}{r} 14,000 \\ \times 50 \\ \hline \end{array}$$

$$700,000$$

$$\begin{array}{r} 7,549,322 \\ -1,458,167 \\ \hline \end{array}$$

$$6,091,155$$

$$\begin{array}{r} 2,657,273 \\ +8,352,796 \\ \hline \end{array}$$

$$11,010,069$$

$$\begin{array}{r} 90,000 \\ \times 110 \\ \hline \end{array}$$

$$9,900,000$$

Add the fractions with unlike denominators.

$$\frac{2}{6} + \frac{7}{18} = \frac{6}{18} + \frac{7}{18} = \frac{13}{18}$$

$$\frac{3}{8} + \frac{4}{16} = \frac{6}{16} + \frac{4}{16} = \frac{10}{16}$$

$$\frac{5}{7} + \frac{2}{14} = \frac{10}{14} + \frac{2}{14} = \frac{12}{14}$$

$$\frac{4}{5} + \frac{1}{10} = \frac{8}{10} + \frac{1}{10} = \frac{9}{10}$$

Write the fractions in simplest form.

$$\frac{18}{27} = \frac{2}{3}$$

$$\frac{10}{20} = \frac{1}{2}$$

$$\frac{12}{16} = \frac{3}{4}$$

$$\frac{25}{30} = \frac{5}{6}$$

McRuffy Press Fourth Grade Color Math Test 7

Test Answers Page 2

- | | | |
|-------------------------|-------------------------|-------------------------|
| 83 ●prime Ocomposite | 27 Oprime ●composite | 23 ●prime Ocomposite |
| 62 Oprime ●composite | 59 ●prime Ocomposite | 33 Oprime ●composite |
| 54 Oprime ●composite | 45 Oprime ●composite | 69 Oprime ●composite |
| 79 ●prime Ocomposite | 91 Oprime ●composite | 13 ●prime Ocomposite |

Match the properties to the examples.

- | | |
|--------------------------------|--|
| <u>C</u> Distributive Property | A $2 + 8 + 7 = 8 + 2 + 7$ |
| <u>A</u> Commutative Property | B $7 + 8 + 2 = (7 + 8) + 2$ |
| <u>B</u> Associative Property | C $2 \times (8 + 7) = (2 \times 8) + (2 \times 7)$ |

Find the factors for these numbers. Start by checking for divisibility.








- | | |
|---------------------------------|------------------------------|
| 16 <u>1, 2, 4, 8, 16</u> | 20 <u>1, 2, 4, 5, 10, 20</u> |
| 36 <u>1, 2, 4, 6, 9, 18, 36</u> | 45 <u>1, 3, 5, 9, 15, 45</u> |

Match the (x,y) pairs to the equations. Choose the equations labeled A to F. Write letters A to F on the blanks.

- D (7,19) B (7,23) F (7,22) A (7,18) E (7,20) C (7,21)

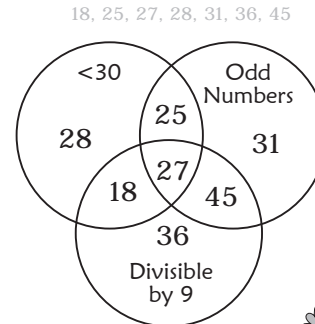
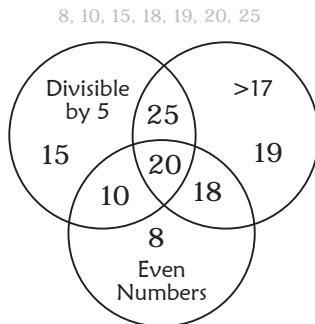
- A $2x + 4 = y$ B $3x + 2 = y$ C $4x - 7 = y$ D $3x - 2 = y$ E $2x + 6 = y$ F $4x - 6 = y$

Match the names. Write the matching numbers, then write the number of sides and edges.

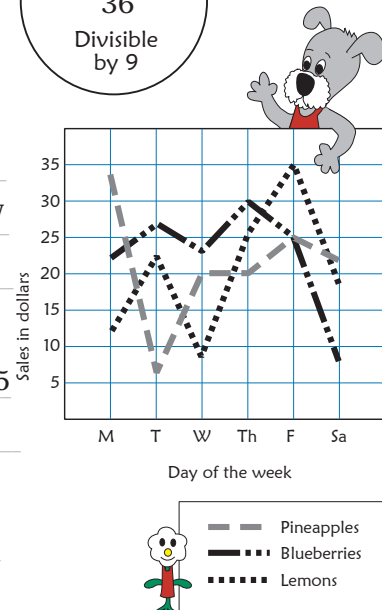
							
name	4	6	5	1	2	7	3
sides	2	6	5	6	3	1	5
edges	1	12	9	12	2	0	8

1. cube
2. cylinder
3. pyramid
4. cone
5. triangular prism
6. rectangular prism
7. sphere

Test Answers Page 3



1. What fruit sold the most on Monday? P
2. On what day did Ruff sell the most lemons? F
3. What day did Ruff sell \$7 worth of lemons? W
4. What fruit sold the same amount on 2 days? P
5. What fruit sold the least on Saturday? B
6. What amount of blueberries sold on Friday? \$25
7. What fruit sold the same amount on Friday? P
8. On what day did pineapples sell the least? T
9. On what day did blueberries sell the most? Th
10. What amount of lemons sold on Friday? \$35



McRuffy Press Fourth Grade Color Math Test 8

Materials: Test pages (Resource pack, 3 sheets)

Test Directions

Page 1:

1. Problem solving: **Solve the problems.**
2. Subtract Fractions: **Subtract the fractions and simplify**
3. Adding fractions with unlike denominators: **Add the fractions. Change the sums to mixed numbers.**
4. Subtract lengths: **Find the differences in length. Subtract yards, feet, & inches.**

Page 2:

1. Subtracting decimals: **Subtract the numbers with decimals.**
2. Estimating probability: **Estimate the probabilities of bean bag tosses.**
3. Areas of shapes: **Find the areas of the shapes. Look to divide it into triangles and rectangles.**

Page 3:

1. Flips, Slides, Rotations: **Identify how the parts added to the first design.**
2. Units: **Choose the best unit for measuring. Use the first letter of the unit as an abbreviation.**
3. Conversions: **Convert the units of volume. Use the chart.**

Test Answers Page 1

$$\begin{array}{r} 124 \\ 37 \overline{) 4588} \end{array}$$

$$\begin{array}{r} 93 \\ 61 \overline{) 5673} \end{array}$$

$$\begin{array}{r} 358 \\ 22 \overline{) 7876} \end{array}$$

$$\begin{array}{r} 124 \\ 79 \overline{) 9796} \end{array}$$

Subtract fractions with unlike denominators. Simplify the fractions.

$$\frac{12}{5} - \frac{8}{4} = \frac{48}{20} - \frac{40}{20} = \frac{8}{20} = \frac{2}{5}$$

$$\frac{9}{6} - \frac{10}{8} = \frac{72}{48} - \frac{60}{48} = \frac{12}{48} = \frac{1}{4}$$

Add fractions with unlike denominators. Convert the answers to mixed numbers.

$$\frac{7}{2} + \frac{12}{3} = \frac{21}{6} + \frac{24}{6} = \frac{45}{6} = 7 \frac{3}{6} \text{ or } 7 \frac{1}{2}$$

$$\frac{4}{5} + \frac{3}{4} = \frac{16}{20} + \frac{15}{20} = \frac{31}{20} = 1 \frac{11}{20}$$

$$\frac{11}{9} + \frac{7}{8} = \frac{88}{72} + \frac{63}{72} = \frac{151}{72} = 2 \frac{7}{72}$$

Calculate differences in lengths. 12 inches = 1 foot 3 feet = 1 yard

$$\begin{array}{r} 9 \text{ yd } 1 \text{ ft } 8 \text{ in} \\ - 4 \text{ yd } 2 \text{ ft } 7 \text{ in} \\ \hline 4 \text{ yd } 2 \text{ ft } 1 \text{ in} \end{array}$$

$$\begin{array}{r} 6 \text{ yd } 2 \text{ ft } 3 \text{ in} \\ - 2 \text{ yd } 1 \text{ ft } 9 \text{ in} \\ \hline 4 \text{ yd } 0 \text{ ft } 6 \text{ in} \end{array}$$

$$\begin{array}{r} 8 \text{ yd } 1 \text{ ft } 5 \text{ in} \\ - 5 \text{ yd } 1 \text{ ft } 4 \text{ in} \\ \hline 3 \text{ yd } 0 \text{ ft } 1 \text{ in} \end{array}$$

McRuffy Press Fourth Grade Color Math Test 8 Answers Page 2

Subtraction with decimals. Solve the problems.

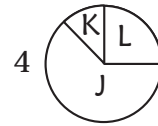
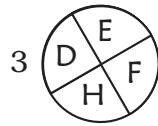
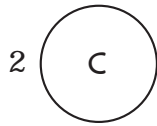
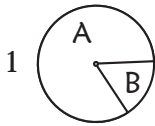
$$\begin{array}{r} 763.25 \\ - 247.13 \\ \hline 516.12 \end{array}$$

$$\begin{array}{r} 803.544 \\ - 52.468 \\ \hline 751.076 \end{array}$$

$$\begin{array}{r} 12.8284 \\ - 8.6335 \\ \hline 4.1949 \end{array}$$

$$\begin{array}{r} 9.1234 \\ - 2.8765 \\ \hline 6.2469 \end{array}$$

A group of children were tossing beanbags on targets that looked like the ones below. Categorize the probabilities for the outcomes for each time bags landed on a target. Abbreviate Im, Un, Eq, Li, Ce.



The probability of a toss landing on:

1. the C section of target 2 Ce

2. the D section of target 3 Un

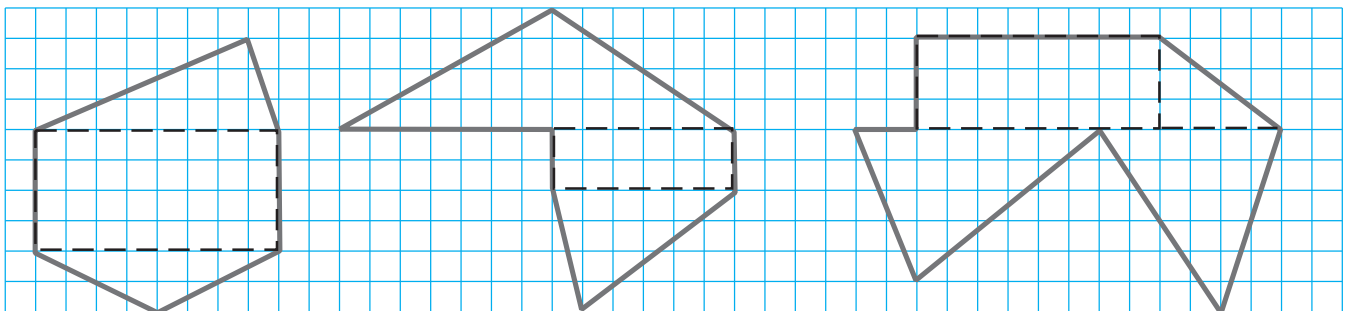
3. the G section of target 4 Im

4. the N section of target 5 Eq

5. the A section of target 1 Li

6. the K section of target 4 Un

Find the area of the shapes. Write the answers on the lines.






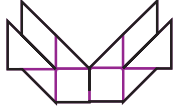

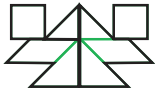
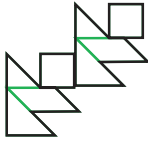

A = 52

A = 48

A = 68

McRuffy Press Fourth Grade Color Math Test 8 Answers Page 3

Look at the first design in each row. Do the following designs show a flip, slide, or rotation? Fill in the circles to mark your answers.

	<input type="radio"/> flip <input checked="" type="radio"/> slide <input type="radio"/> rotation		<input type="radio"/> flip <input type="radio"/> slide <input checked="" type="radio"/> rotation		<input checked="" type="radio"/> flip <input type="radio"/> slide <input type="radio"/> rotation	
	<input checked="" type="radio"/> flip <input type="radio"/> slide <input type="radio"/> rotation		<input type="radio"/> flip <input checked="" type="radio"/> slide <input type="radio"/> rotation		<input type="radio"/> flip <input type="radio"/> slide <input checked="" type="radio"/> rotation	

Choose the best unit for the measurement. Use the first letter of the unit to record your answer.

1. The amount of corn a farmer harvests B

2. The sugar used in a cookie recipe C

3. The weight of a large dog P

4. The distance across a state M

5. The length of a board at a lumberyard F

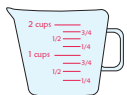
6. The length of your arm I

7. Water in a swimming pool G

8. The weight of a bus T

9. The weight of a card to mail O

Bushels
Cups
Feet
Gallons
Inches
Miles
Ounces
Pounds
Tons



Use the chart to change units of volume.

20 quarts = 5 gallons 3 pints = 48 ounces

5 cups = 40 ounces 64 gallons = 8 bushels

256 ounces = 2 gallons = 8 quarts = 16 pints

160 ounces = 5 quarts = 10 pints = 20 cups

16 ounces = 1 Pint
 32 ounces = 1 Quart
 128 ounces = 1 Gallon

2 Pints = 1 Quart
 4 Quarts = 1 Gallon
 8 Gallons = 1 Bushel

1 Cup = 8 Ounces
 1 Pint = 16 Ounces
 1 Quart = 32 Ounces
 1 Gallon = 128 Ounces

Lesson 141 Test 7 page 1

Solve the problems.

$$\begin{array}{r} 8,356,734 \\ -4,267,554 \\ \hline \end{array}$$

$$\begin{array}{r} 4,118,967 \\ -2,475,562 \\ \hline \end{array}$$

$$\begin{array}{r} 7,549,322 \\ -1,458,167 \\ \hline \end{array}$$

$$\begin{array}{r} 3,789,547 \\ +6,782,124 \\ \hline \end{array}$$

$$\begin{array}{r} 5,345,568 \\ +9,231,957 \\ \hline \end{array}$$

$$\begin{array}{r} 2,657,273 \\ +8,352,796 \\ \hline \end{array}$$

$$\begin{array}{r} 6,000 \\ \times 200 \\ \hline \end{array}$$

$$\begin{array}{r} 52,000 \\ \times 300 \\ \hline \end{array}$$

$$\begin{array}{r} 14,000 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 90,000 \\ \times 110 \\ \hline \end{array}$$

Add the fractions with unlike denominators.

$$\frac{2}{6} + \frac{7}{18} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{8} + \frac{4}{16} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{5}{7} + \frac{2}{14} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{4}{5} + \frac{1}{10} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

Write the fractions in simplest form.

$$\frac{18}{27} = \frac{\quad}{\quad}$$

$$\frac{10}{20} = \frac{\quad}{\quad}$$

$$\frac{12}{16} = \frac{\quad}{\quad}$$

$$\frac{25}{30} = \frac{\quad}{\quad}$$

Lesson 141 Test 7 page 2

Fill in circles to mark your answers, prime number or composite number.

83	<input type="radio"/> prime	<input type="radio"/> composite	27	<input type="radio"/> prime	<input type="radio"/> composite	23	<input type="radio"/> prime	<input type="radio"/> composite
62	<input type="radio"/> prime	<input type="radio"/> composite	59	<input type="radio"/> prime	<input type="radio"/> composite	33	<input type="radio"/> prime	<input type="radio"/> composite
54	<input type="radio"/> prime	<input type="radio"/> composite	45	<input type="radio"/> prime	<input type="radio"/> composite	69	<input type="radio"/> prime	<input type="radio"/> composite
79	<input type="radio"/> prime	<input type="radio"/> composite	91	<input type="radio"/> prime	<input type="radio"/> composite	13	<input type="radio"/> prime	<input type="radio"/> composite

Match the properties to the examples.

_____ Distributive Property	A $2 + 8 + 7 = 8 + 2 + 7$
_____ Commutative Property	B $7 + 8 + 2 = (7 + 8) + 2$
_____ Associative Property	C $2 \times (8 + 7) = (2 \times 8) + (2 \times 7)$








Find the factors for these numbers. Start by checking for divisibility.

16 _____	20 _____
36 _____	45 _____

Match the (x,y) pairs to the equations. Choose the equations labeled A to F. Write letters A to F on the blanks.

_____ (7,19)	_____ (7,23)	_____ (7,22)	_____ (7,18)	_____ (7,20)	_____ (7,21)
A $2x + 4 = y$	B $3x + 2 = y$	C $4x - 7 = y$	D $3x - 2 = y$	E $2x + 6 = y$	F $4x - 6 = y$

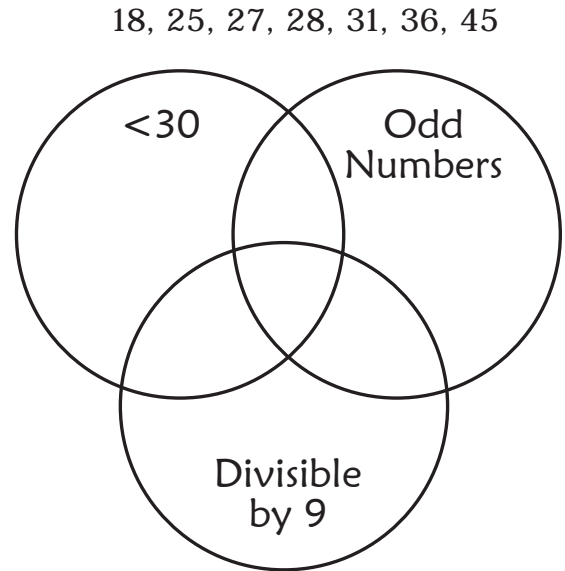
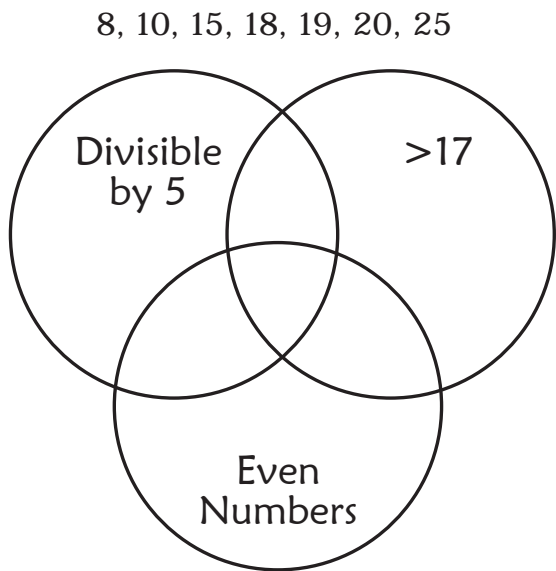
Match the names. Write the matching numbers, then write the number of sides and edges.

							
name							
sides							
edges							

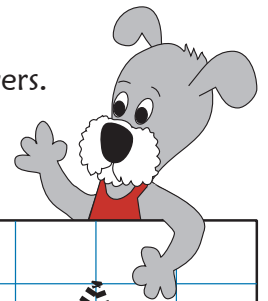
1. cube
2. cylinder
3. pyramid
4. cone
5. triangular prism
6. rectangular prism
7. sphere

Lesson 141 Test 7 page 3

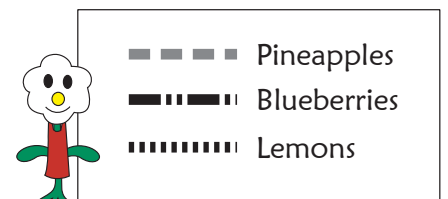
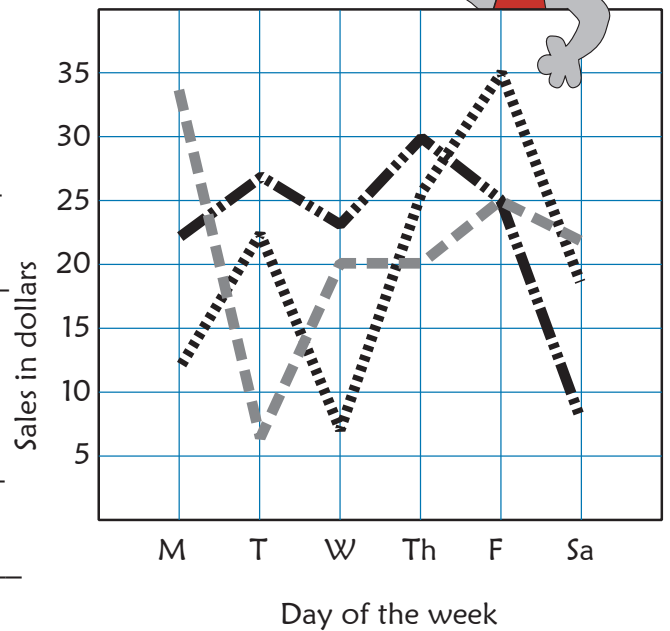
Organize the sets of numbers on the Venn diagrams



Read the line chart to answer the questions about Ruff's Fruit Stand. Abbreviate answers. Days: M, T, W, Th, F, Sa. Fruits: P, B, L, or dollar amounts without cents (\$12)



1. What fruit sold the most on Monday? _____
2. On what day did Ruff sell the most lemons? _____
3. What day did Ruff sell \$7 worth of lemons? _____
4. What fruit sold the same amount on 2 days? _____
5. What fruit sold the least on Saturday? _____
6. What amount of blueberries sold on Friday? _____
7. What fruit sold the same amount on Friday? _____
8. On what day did pineapples sell the least? _____
9. On what day did blueberries sell the most? _____
10. What amount of lemons sold on Friday? _____



Lesson 160 Test 8 page 1

Division: Find the quotients.

$$37 \overline{) 4588}$$

$$61 \overline{) 5673}$$

$$22 \overline{) 7876}$$

$$79 \overline{) 9796}$$

Subtract fractions with unlike denominators. Simplify the fractions.

$$\frac{12}{5} - \frac{8}{4} = \frac{\quad}{\quad} - \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{9}{6} - \frac{10}{8} = \frac{\quad}{\quad} - \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

Add fractions with unlike denominators. Convert the answers to mixed numbers.

$$\frac{7}{2} + \frac{12}{3} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \frac{\quad}{\quad}$$

$$\frac{4}{5} + \frac{3}{4} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{11}{9} + \frac{7}{8} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

Calculate differences in lengths. 12 inches = 1 foot 3 feet = 1 yard

$$\begin{array}{r} 9 \text{ yd } 1 \text{ ft } 8 \text{ in} \\ - 4 \text{ yd } 2 \text{ ft } 7 \text{ in} \\ \hline \end{array}$$

$$\begin{array}{r} 6 \text{ yd } 2 \text{ ft } 3 \text{ in} \\ - 2 \text{ yd } 1 \text{ ft } 9 \text{ in} \\ \hline \end{array}$$

$$\begin{array}{r} 8 \text{ yd } 1 \text{ ft } 5 \text{ in} \\ - 5 \text{ yd } 1 \text{ ft } 4 \text{ in} \\ \hline \end{array}$$

Lesson 160 Test 8 page 2

Subtraction with decimals. Solve the problems.

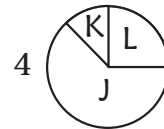
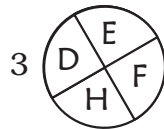
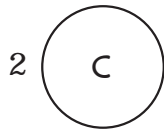
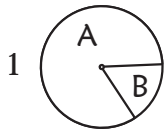
$$\begin{array}{r} 763.25 \\ - 247.13 \\ \hline \end{array}$$

$$\begin{array}{r} 803.544 \\ - 52.468 \\ \hline \end{array}$$

$$\begin{array}{r} 12.8284 \\ - 8.6335 \\ \hline \end{array}$$

$$\begin{array}{r} 9.1234 \\ - 2.8765 \\ \hline \end{array}$$

A group of children were tossing beanbags on targets that looked like the ones below. Categorize the probabilities for the outcomes for each time bags landed on a target. Abbreviate Im, Un, Eq, Li, Ce.



The probability of a toss landing on:

1. the C section of target 2 _____

2. the D section of target 3 _____

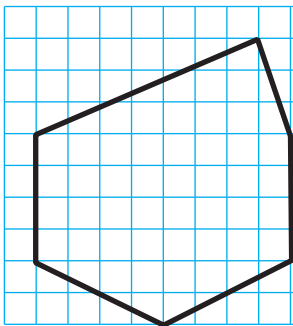
3. the G section of target 4 _____

4. the N section of target 5 _____

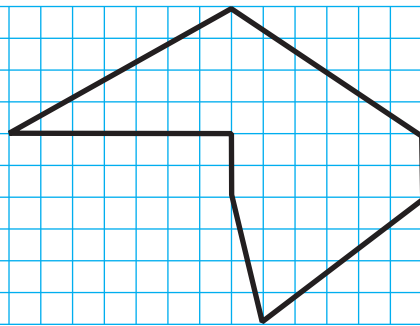
5. the A section of target 1 _____

6. the K section of target 4 _____

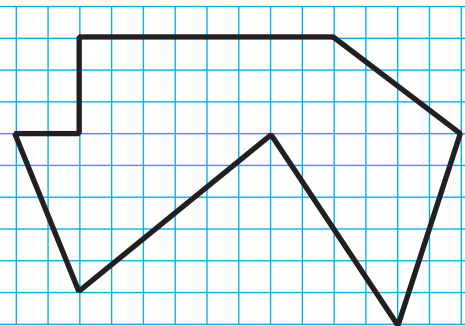
Find the area of the shapes. Write the answers on the lines.



A= _____



A= _____



A= _____

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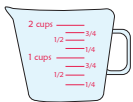
Look at the first design in each row. Do the following designs show a flip, slide, or rotation? Fill in the circles to mark your answers.

	<input type="radio"/> flip <input type="radio"/> slide <input type="radio"/> rotation		<input type="radio"/> flip <input type="radio"/> slide <input type="radio"/> rotation		<input type="radio"/> flip <input type="radio"/> slide <input type="radio"/> rotation
	<input type="radio"/> flip <input type="radio"/> slide <input type="radio"/> rotation		<input type="radio"/> flip <input type="radio"/> slide <input type="radio"/> rotation		<input type="radio"/> flip <input type="radio"/> slide <input type="radio"/> rotation

Choose the best unit for the measurement. Use the first letter of the unit to record your answer.

- | | |
|--|---------------------------------------|
| 1. The amount of corn a farmer harvests _____ | 6. The length of your arm _____ |
| 2. The sugar used in a cookie recipe _____ | 7. Water in a swimming pool _____ |
| 3. The weight of a large dog _____ | 8. The weight of a bus _____ |
| 4. The distance across a state _____ | 9. The weight of a card to mail _____ |
| 5. The length of a board at a lumberyard _____ | |

- | |
|---------|
| Bushels |
| Cups |
| Feet |
| Gallons |
| Inches |
| Miles |
| Ounces |
| Pounds |
| Tons |



Use the chart to change units of volume.

- 20 quarts = _____ gallons 3 pints = _____ ounces
- 5 cups = _____ ounces 64 gallons = _____ bushels
- 256 ounces = _____ gallons = _____ quarts = _____ pints
- 160 ounces = _____ quarts = _____ pints = _____ cups

16 ounces = 1 Pint
32 ounces = 1 Quart
128 ounces = 1 Gallon
2 Pints = 1 Quart
4 Quarts = 1 Gallon
8 Gallons = 1 Bushel
1 Cup = 8 Ounces
1 Pint = 16 Ounces
1 Quart = 32 Ounces
1 Gallon = 128 Ounces