

Fractions

Add. Simplify all answers.

1) $\frac{1}{7} + \frac{3}{7}$

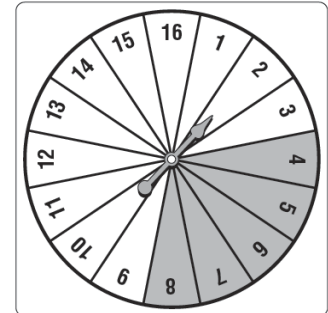
2) $\frac{1}{6} + \frac{1}{2}$

3) $4\frac{1}{8} + 8\frac{11}{16}$

4) $5\frac{7}{16} + 3\frac{1}{16}$

Probability

5) A spinner like the one shown is used in a game. Determine the theoretical probability of each outcome if the spinner is equally likely to land on each section. Express each theoretical probability as a fraction and as a percent.



a) $P(10) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
(fraction) (percent)

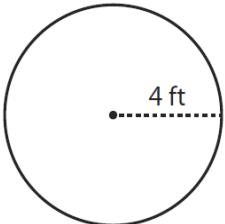
b) $P(\text{odd}) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
(fraction) (percent)

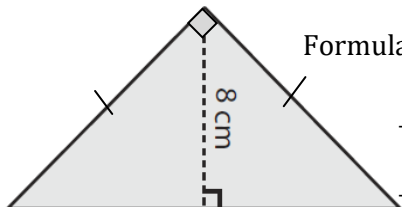
c) $P(\text{greater than } 7) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
(fraction) (percent)

d) $P(\text{prime \#}) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
(fraction) (percent)

Geometry

For each shape, identify the figure (be specific as possible) and find the **area**. Show all formulas. Use 3 for π .

6)  Name: _____
 Formula: _____

7)  Name: _____
 Formula: _____

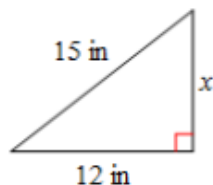
Factoring

Find the prime factors, and then write all factor pairs for each number.

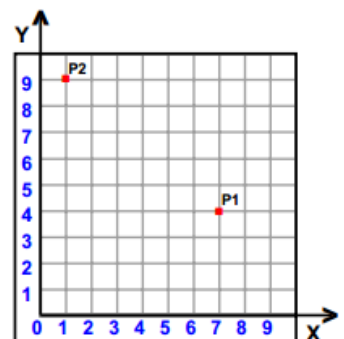
	<u>prime factorization</u>	<u>factor pairs</u>
8) 173	_____	_____
9) 174	_____	_____

Current Problem Sets

10) Find the missing length of the right triangle. Round answers to the nearest tenth. A calculator can be used.



11) Find the distance between the two points. Round to the nearest tenth. A calculator may be used.



Fractions

Add. Simplify all answers.

1) $4\frac{1}{2} + 6\frac{1}{3}$

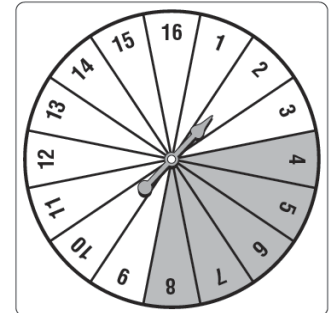
2) $4\frac{2}{5} + 8\frac{1}{2}$

3) $2\frac{5}{14} + 5\frac{1}{7}$

4) $6\frac{11}{24} + 4\frac{1}{6}$

Probability

5) A spinner like the one shown is used in a game. Determine the theoretical probability of each outcome if the spinner is equally likely to land on each section. Express each theoretical probability as a fraction and as a percent.



a) $P(1 \text{ or } 2) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
(fraction) (percent)

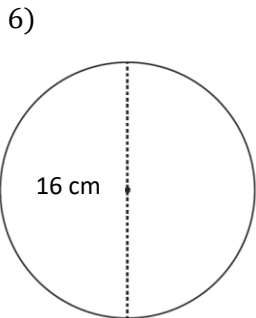
b) $P(\text{shaded}) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
(fraction) (percent)

c) $P(\text{less than } 5) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
(fraction) (percent)

d) $P(\text{not shaded}) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
(fraction) (percent)

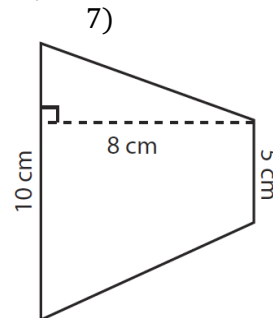
Geometry

For each shape, identify the figure (be specific as possible) and find the **area**. Show all formulas. Use 3 for π .



Name: _____

Formula: _____



Name: _____

Formula: _____

Factoring

Find the prime factors, and then write all factor pairs for each number.

prime factorization

factor pairs

8) 175 _____

9) 176 _____

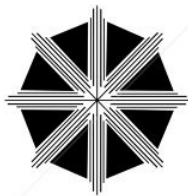
Current Problem Sets

10) Draw the lines of symmetry. State how many lines.

a) _____



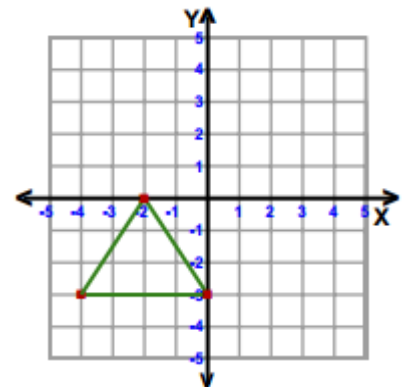
b) _____



c) _____



11) Reflect the figure over the x-axis.



Write a general rule for the transformation:

Fractions

Add. Simplify all answers.

1) $2\frac{2}{5} + 5\frac{1}{7}$

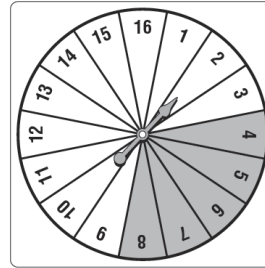
2) $1\frac{3}{5} + 4\frac{3}{10}$

3) $4\frac{2}{3} + 9\frac{2}{10}$

4) $3\frac{1}{3} + 5\frac{2}{9}$

Probability

5) The table shows the results of an experiment in which the spinner shown was spun 50 times. Find the experimental probability of each outcome as a fraction and as a percent.



Number	Frequency	Number	Frequency
1		9	
2		10	
3		11	
4		12	
5		13	
6		14	
7		15	
8		16	

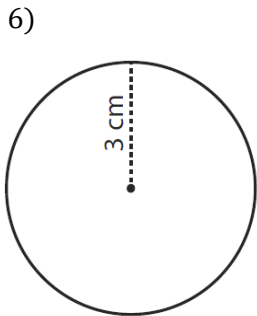
a) P(less than 7) = _____ = _____

b) P(even) = _____ = _____

c) P(not shaded) = _____ = _____

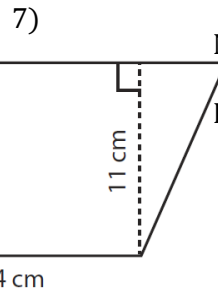
Geometry

For each shape, identify the figure (be specific as possible) and find the **area**. Show all formulas. Use 3 for π .



Name: _____

Formula: _____



Name: _____

Formula: _____

Factoring

Find the prime factors, and then write all factor pairs for each number.

prime factorization

factor pairs

8) 177 _____

9) 178 _____

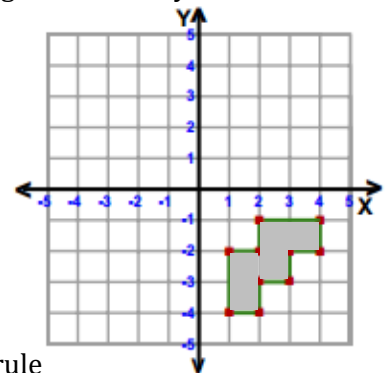
Current Problem Sets

10) Draw the lines of symmetry. State how many lines.

a) _____ b) _____ c) _____



11) Reflect the figure over the y-axis.



Write a general rule for the transformation:

Fractions

Subtract. Simplify all answers.

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

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

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

4) $5\frac{9}{10} - 2\frac{1}{2}$

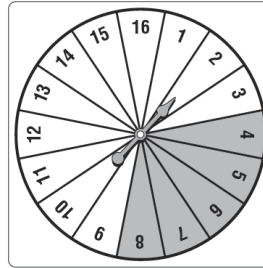
Probability

5) The table shows the results of an experiment in which the spinner shown was spun 50 times. Find the experimental probability of each outcome as a fraction and as a percent.

a) $P(13) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

b) $P(\text{greater than } 12) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

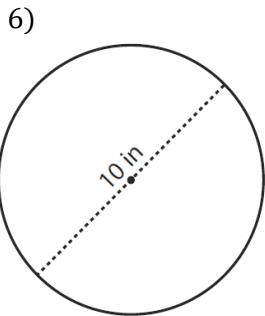
c) $P(\text{prime}) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$



Number	Frequency	Number	Frequency
1	II	9	III
2	III	10	IIII
3	II	11	II
4	IIII	12	IIII
5	IIII	13	I
6	IIII I	14	II
7	I	15	III
8	II	16	IIII

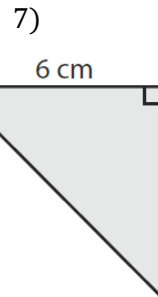
Geometry

For each shape, identify the figure (be specific as possible) and find the **area**. Show all formulas. Use 3 for π .



Name: _____

Formula: _____



Name: _____

Formula: _____

Factoring

Find the prime factors, and then write all factor pairs for each number.

prime factorization

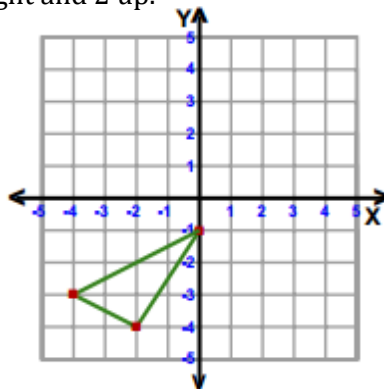
factor pairs

8) 179 _____

9) 180 _____

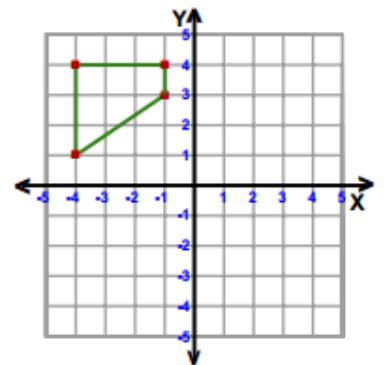
Current Problem Sets

10) Translate the figure 5 right and 2 up.



Write a general rule for the transformation:

11) Reflect the figure over the x-axis.



Write a general rule for the transformation:

Fractions

Subtract. Simplify all answers.

1) $5\frac{9}{10} - 2\frac{1}{2}$

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

3) $7\frac{1}{2} - 3\frac{1}{5}$

4) $9\frac{2}{3} - 2\frac{1}{5}$

Probability

5) The table shows the students involved in community service. Suppose one student is randomly selected to represent the school at a state-wide awards ceremony. Find the probability of each event. Express your answer as a simplified fraction and round to a whole percent.

Community Service (Two-Way Table)

	6th Graders	7th Graders	8th Graders
Girls	5	3	7
Boys	15	5	5

a) $P(\text{boy}) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

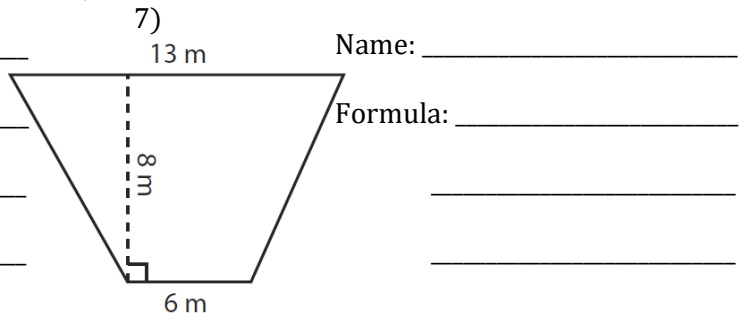
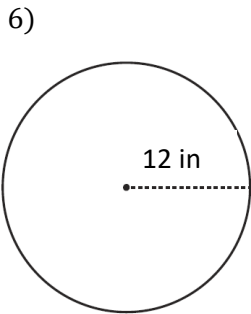
b) $P(\text{not a 6th grader}) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

c) $P(\text{girl}) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

d) $P(\text{8th grader}) = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

Geometry

For each shape, identify the figure (be specific as possible) and find the **area**. Show all formulas. Use 3 for π .



Factoring

Find the prime factors, and then write all factor pairs for each number.

prime factorization

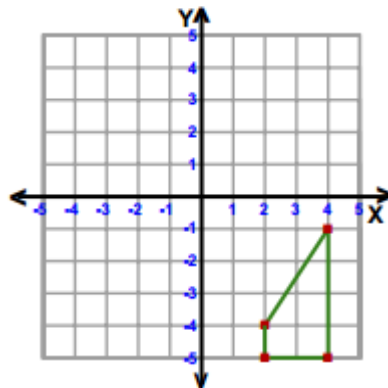
factor pairs

8) 181 _____

9) 182 _____

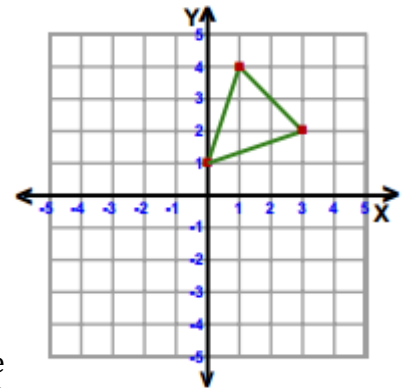
Current Problem Sets

10) Translate the figure 4 left and 3 up.



Write a general rule for the transformation:

11) Reflect the figure over the y-axis.



Write a general rule for the transformation:

Fractions

Subtract. Simplify all answers.

1) $8\frac{1}{2} - 1\frac{1}{4}$

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

3) $6\frac{7}{10} - 3\frac{1}{2}$

4) $9\frac{2}{3} - 2\frac{2}{5}$

Probability

Community Service (Two-Way Table)

5) The table shows the students involved in community service. Suppose one student is randomly selected to represent the school at a state-wide awards ceremony. Find the probability of each event. Express your answer as a simplified fraction and round to a whole percent.

	6th Graders	7th Graders	8th Graders
Girls	5	3	7
Boys	15	5	5

a) P(boy or girl) = _____ = _____

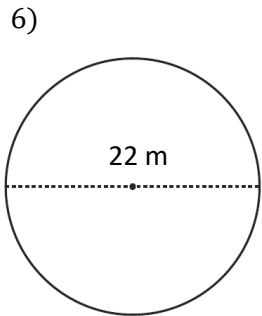
b) P(6th or 7th grader) = _____ = _____

c) P(7th grader) = _____ = _____

d) P(not a 9th grader) = _____ = _____

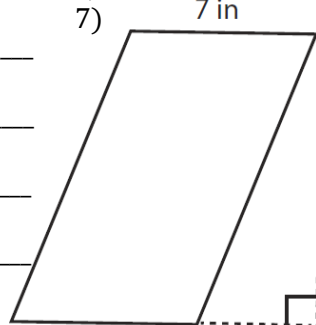
Geometry

For each shape, identify the figure (be specific as possible) and find the **area**. Show all formulas. Use 3 for π .



Name: _____

Formula: _____



Name: _____

Formula: _____

Factoring

Find the prime factors, and then write all factor pairs for each number.

prime factorization

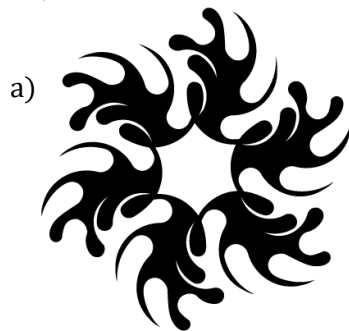
factor pairs

8) 183 _____

9) 184 _____

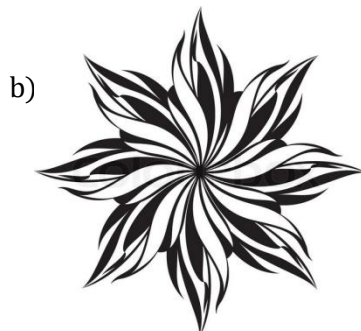
Current Problem Sets

10) For each figure state the order and the angle of rotation.



Order: _____

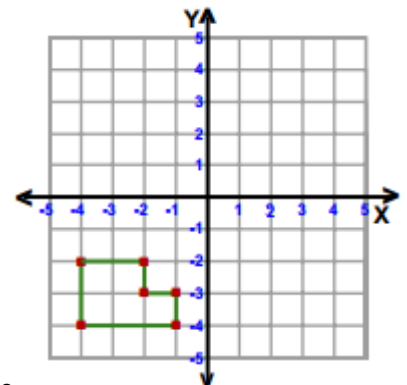
Angle : _____



Order: _____

Angle : _____

11) Rotate the figure 180° about the origin.



Write a general rule for the transformation:

Fractions

Multiply. Cross-cancel if possible. Simplify all answers.

1) $\frac{5}{3} * \frac{2}{5}$

2) $\frac{3}{4} * \frac{8}{9}$

3) $\frac{5}{2} * \frac{2}{7}$

4) $\frac{7}{6} * \frac{9}{11}$

Probability

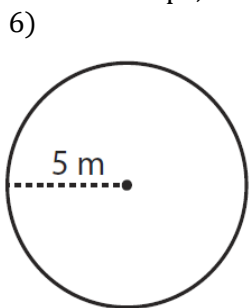
5) For the situation, make a tree diagram and then identify the sample space. Then give the total number of outcomes.

Choosing an outfit from a green shirt, blue shirt, or a red shirt, and black pants or blue pants

Total number of outcomes: _____

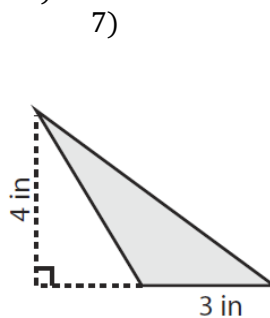
Geometry

For each shape, identify the figure (be specific as possible) and find the **area**. Show all formulas. Use 3 for π .



Name: _____

Formula: _____



Name: _____

Formula: _____

Factoring

Find the prime factors, and then write all factor pairs for each number.

prime factorization

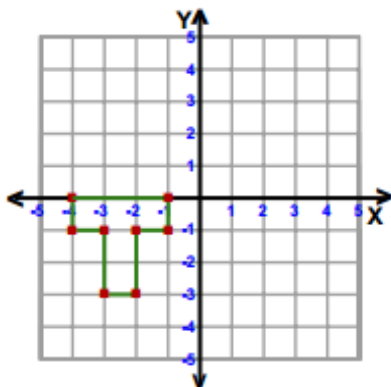
factor pairs

8) 185 _____

9) 186 _____

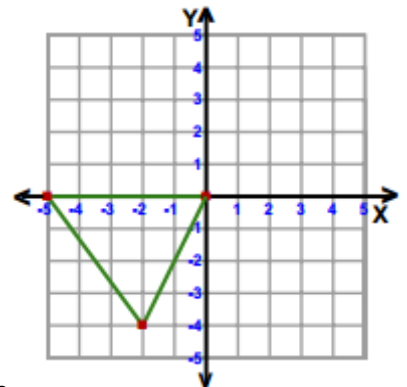
Current Problem Sets

10) Rotate the figure 90° clockwise about the origin.



Write a general rule for the transformation:

11) Rotate the figure 90° counterclockwise about the origin.



Write a general rule for the transformation:

Fractions

Multiply. Cross-cancel if possible. Simplify all answers.

1) $\frac{9}{2} * \frac{1}{18}$

2) $\frac{8}{9} * \frac{3}{16}$

3) $\frac{5}{12} * \frac{2}{15}$

4) $\frac{9}{8} * \frac{14}{15}$

Probability

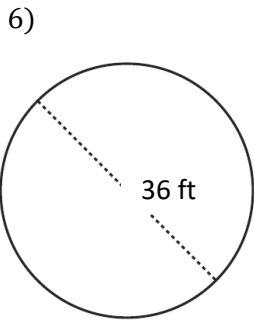
5) For the situation, make a tree diagram and then identify the sample space. State the total number of outcomes.

Choosing a vowel from the word COUNT and a consonant from the word PRIME

Total number of outcomes: _____

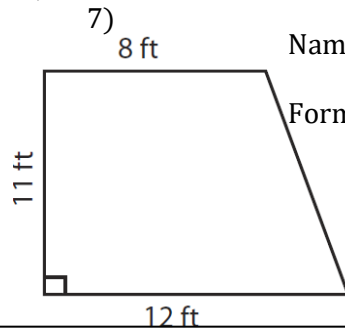
Geometry

For each shape, identify the figure (be specific as possible) and find the **area**. Show all formulas. Use 3 for π .



Name: _____

Formula: _____



Name: _____

Formula: _____

Factoring

Find the prime factors, and then write all factor pairs for each number.

prime factorization

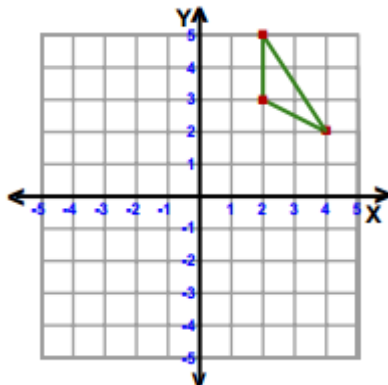
factor pairs

8) 187 _____

9) 188 _____

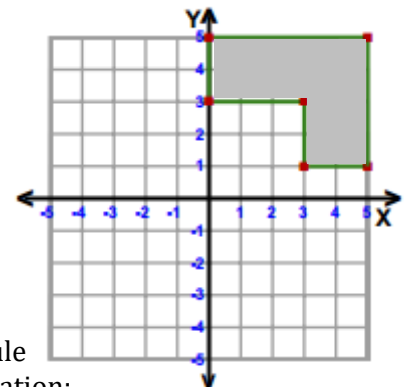
Current Problem Sets

10) Rotate the figure 90° counterclockwise about the origin.



Write a general rule for the transformation:

11) Reflect the figure over the x-axis.



Write a general rule for the transformation:

Fractions

Multiply. Cross-cancel if possible. Simplify all answers.

1) $\frac{7}{27} * \frac{6}{7}$

2) $\frac{8}{15} * \frac{15}{26}$

3) $\frac{10}{27} * \frac{18}{25}$

4) $\frac{33}{49} * \frac{7}{11}$

Probability

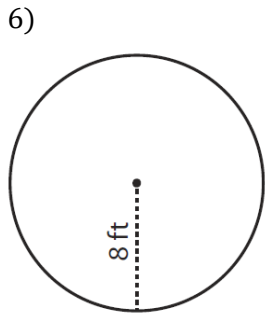
5) For the situation, make a tree diagram and then identify the sample space. State the total number of outcomes.

Choosing a vowel from the word BEAUMONT and a consonant from the word COLTS

Total number of outcomes: _____

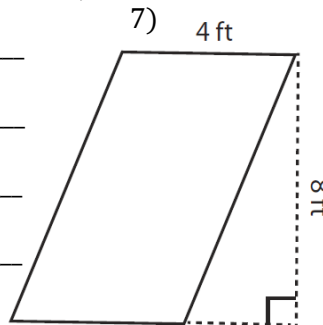
Geometry

For each shape, identify the figure (be specific as possible) and find the **area**. Show all formulas. Use 3 for π .



Name: _____

Formula: _____



Name: _____

Formula: _____

Factoring

Find the prime factors, and then write all factor pairs for each number.

prime factorization

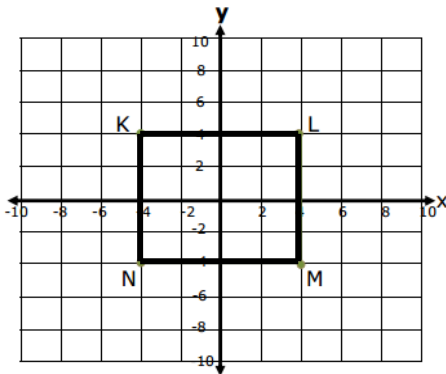
factor pairs

8) 189 _____

9) 190 _____

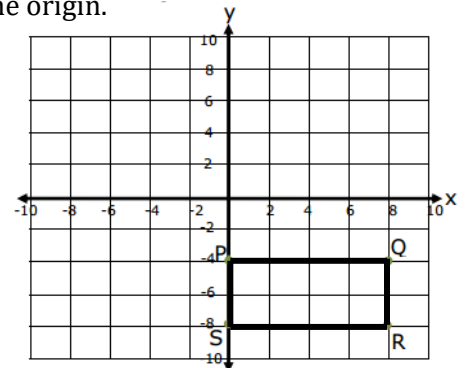
Current Problem Sets

10) Dilate the figure with a scale factor of 2 centered at the origin.



Write a general rule for the transformation:

11) Dilate the figure with a scale factor of $\frac{1}{4}$ centered at the origin.



Write a general rule for the transformation:

Fractions

Multiply. Cross-cancel if possible. Simplify all answers.

1) $\frac{24}{35} * \frac{7}{36}$

2) $\frac{19}{40} * \frac{16}{19}$

3) $\frac{11}{24} * \frac{16}{55}$

4) $\frac{12}{13} * \frac{13}{18}$

Probability

5) For the situation, make a tree diagram and then identify the sample space. State the total number of outcomes.

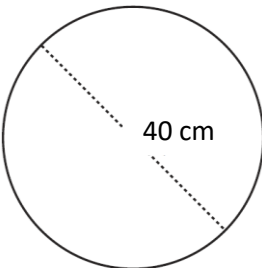
Soup	Salad	Sandwich
Tortellini Lentil	Caesar Macaroni	Roast Beef Ham Turkey

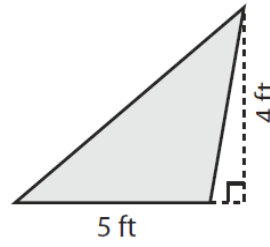
Choosing a lunch consisting of a soup, salad, and sandwich from the menu shown in the table.

Total number of outcomes: _____

Geometry

For each shape, identify the figure (be specific as possible) and find the **area**. Show all formulas. Use 3 for π .

6)  Name: _____
Formula: _____

7)  Name: _____
Formula: _____

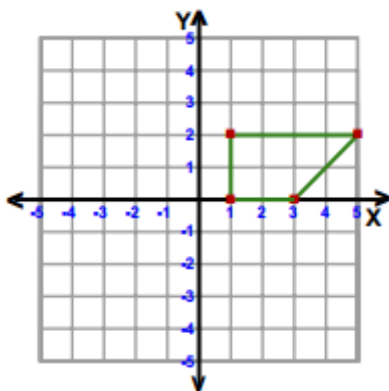
Factoring

Find the prime factors, and then write all factor pairs for each number.

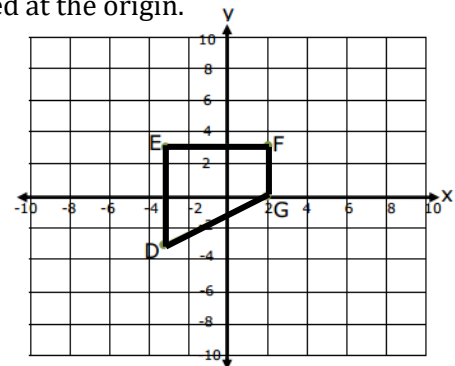
	<u>prime factorization</u>	<u>factor pairs</u>
8) 191	_____	_____
9) 192	_____	_____

Current Problem Sets

10) Translate the figure down 3 and to the left 1. Then reflect over the y-axis.



11) Dilate the figure with a scale factor of 3 centered at the origin.



Write a general rule for the transformation: