

Math 3, Classwork 28

WARM UP

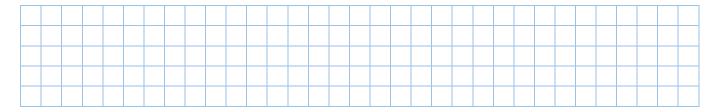
Rewrite the expressions and do calculations in the column:

1. a)
$$4206 \div 6 =$$

b) 7,
$$210 \times 36 =$$



2. Calculate:



3. Calculate:

$$560 \div 70 + 200 \div 20 =$$

$$280 \div 40 - 36 \times 2 =$$

REVIEW

Inverse operations—are the two inverse operations "undo" each other.

Addition and subtraction are inverse operations.

Multiplication and division are inverse operations.

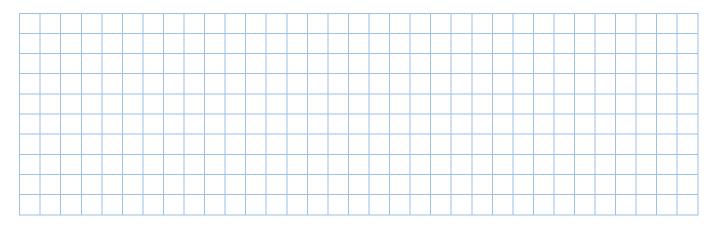
Solve the following equations using an inverse operation.

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a)
$$2x + 14 = 24$$

b)
$$x \div 8 + 25 = 35$$

c)
$$2z - 1\frac{1}{4} = 3$$



5.

Collect the like items to simplify the following algebraic expressions:

$$12a + 12b + 7b - 7a + 100 =$$

$$25 + z + b + 5z + 11b - 13 =$$

6.

Open parenthesis and simplify the expressions:

$$5(20 - w) - 10(w + v) =$$

$$4(d+8)-3(7-d) =$$

$$3(20 + z) - (7 - a + 3) =$$

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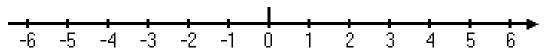
Calculate, use number line if needed (remember, when you should move to the right and when to the left):

a)
$$(-4) + (-3) + (-2) =$$

b)
$$4-3-(-2) =$$

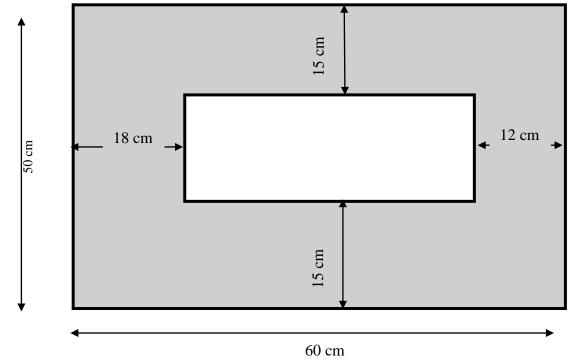
c)
$$(-6) + 6 + (-3) + 3 + (-2) + 3 =$$

d)
$$2 + 4 - 4 + 5 - 2 - 5 - 10 =$$



Lesson 28 Review

Find the area of the shaded shape.



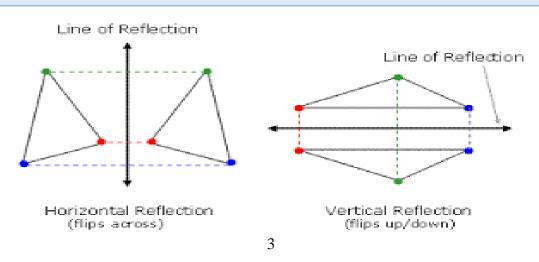
A = _____

A=_____

The reflection of the point (x,y) across the x-axis is the point (x,-y).

The reflection of the point (x,y) across the y-axis is the point (-x,y).

Notice that each original point and its image are the same distance away from the line of reflection. You may be able to simply "count" these distances on the grid.



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a) Find the coordinates of each vertex of triangle LKM

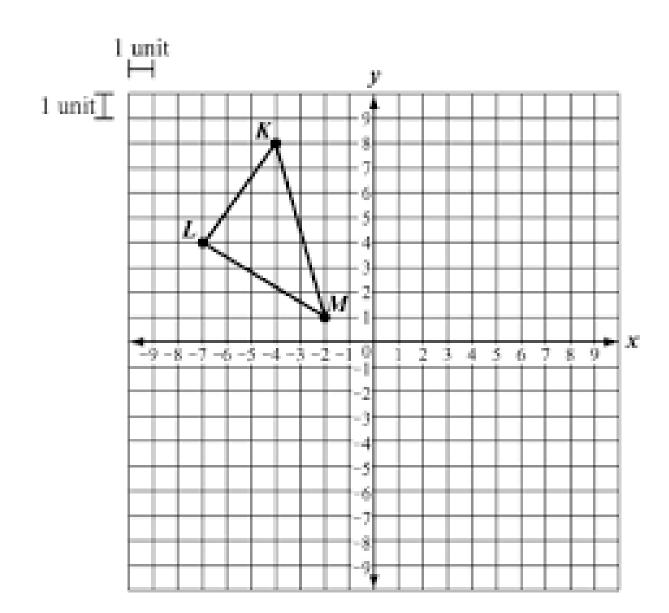
 $L(\ ,\)$ $K(\ ,\)$ $M(\ ,\)$

b) Reflect this triangle horizontally (flip across y-axis) to get a triangle L'K'M' Fine the coordinates of each vertex:

L'(,) K'(,) M'(,)

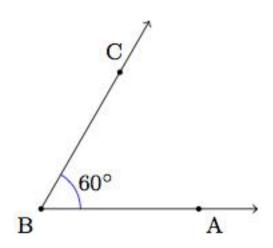
c) Reflect this triangle vertically (flip across x-axis) to get a triangle L"K"M" Fine the coordinates of each vertex:

 $L''(\ ,\) K''(\ ,\) M''(\ ,\)$



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An angle below measures 60° degrees:

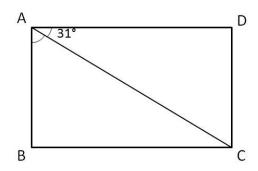


a) Draw another angle that measures 25° degrees. It should have the same vertex and share side *BA*.

b) How many angles are there in the figure you drew? What are their measures?

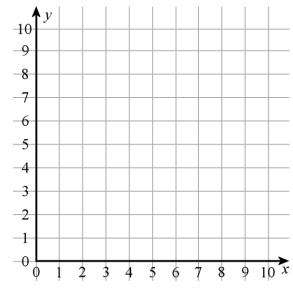
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a) In the figure, *ABCD* is a rectangle and $\angle CAD = 31^{\circ}$. Find $\angle BAC$.



∠*BAC* = _____

b) Use a compass.



1) Draw a circle with center point (5, 6) and a radius of 3 units.

2) Draw another circle with the same center point but double the radius.

3) How many common points your second circle has with x-axis? _____

4) How many common points your second circle has with y-axis? _____

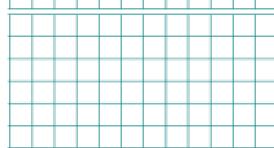
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Write down a mathematical expression to solve the problems:

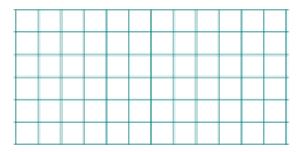
a) There is a total of 50kgs of potatoes packed in the 10 identical bags. How many kgs of potatoes are in \boldsymbol{x} such bags?



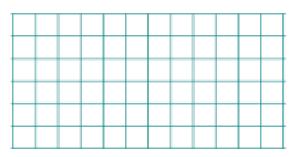
b) There are x kgs of potatoes packed in 12 identical bags. How many kgs of potatoes are in b such bags?



c) There are x kgs of potatoes packed equally into 10 bags. How many bags will be needed to pack z kgs of potatoes?



d) A construction crew repairs 600 meters of a road in one day. How much can be repaired in 9 days?



e) A construction crew repairs 600 meters of a road in one day. How much time is needed to repair 5km of the road?

