



# Math 3 Homework 27



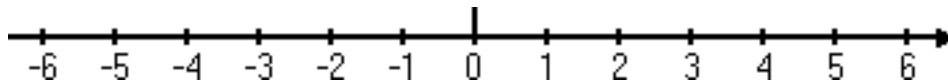
**TIME** this page work \_\_\_\_\_



**1**

Write down the next five terms (use a number line if necessary):

- a)  $-1, -3, -5, -7, \dots$
- b)  $5, 0, -5, -10, \dots$
- c)  $11, 5, -1, -7, \dots$
- d)  $-11, -8, -5, \dots$



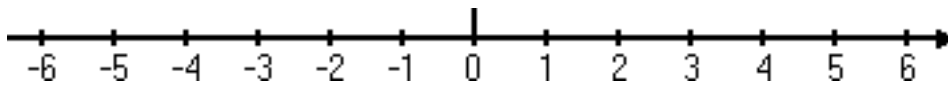
**2**

The temperature on Monday morning is  $-5^{\circ}\text{C}$ . The temperature on Friday morning is  $1^{\circ}\text{C}$ . How much warmer is it on Friday morning than on Monday morning? \_\_\_\_\_

**3**

Answer the questions, using a number line:

- a) What number is 2 more than  $-3$ ?
- b) What number is 5 less than  $-3$ ?



**4**

Less than and greater than - compare numbers, using  $<$ ,  $>$ ,  $=$ :

- a)  $-4 \dots -1$
- b)  $-2 \dots 2$
- c)  $-10 \dots -1$

**Report the time you spent on page 1:** \_\_\_\_\_



5

Draw the number line jump for each addition sentence and find a value:

a)  $-8 + 2 =$

b)  $-4 + 9 =$

c)  $-7 + 5 =$

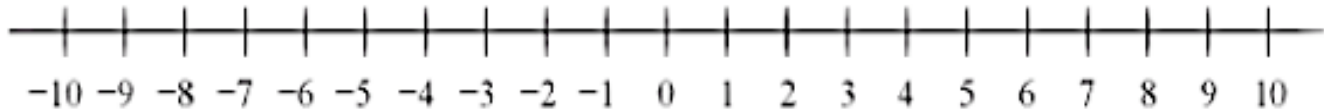
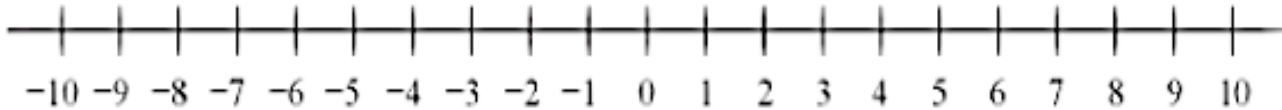
d)  $-10 + 12 =$

e)  $2 - 8 =$

f)  $9 - 4 =$

g)  $5 - 7 =$

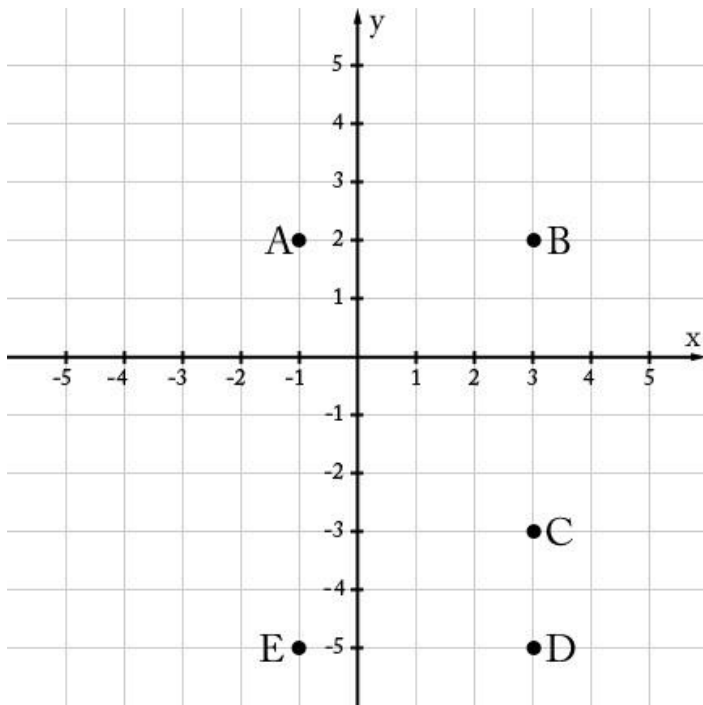
h)  $10 - 12 =$



6

Five points are shown in the coordinate plane below

What are the coordinates of points?



A ( , ), B ( , ), C ( , ),

D ( , ), E ( , )?

What is the distance between points A & B?

\_\_\_\_\_

What is the distance between points D & E?

\_\_\_\_\_

What is the distance between points B & C?

\_\_\_\_\_

7

Simplify the following fractions:

$\frac{5}{40} =$

$\frac{11}{44} =$

$\frac{12}{44} =$

$\frac{27}{27} =$

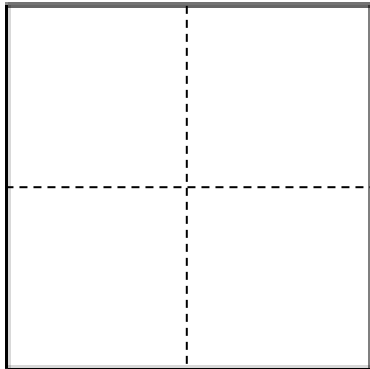
$\frac{14}{12} =$

HW 27

Negative numbers. Coordinate plane

8

A square origami paper is folded to form 4 equal smaller squares. Find the area of a smaller square if the side of an origami paper equals 16 cm. Do you think other 3 squares will have the same area or different?



A =

9

The area of the rectangle with a side of 16cm (length) is equal the area of the square with a side of 8cm. Find another side of the rectangle (width).

\_\_\_\_\_

\_\_\_\_\_

10

Calculate and simplify the answer where possible:

$$\frac{1}{2} + \frac{1}{3} =$$

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

$$\frac{5}{9} + \frac{1}{3} =$$

$$\frac{2}{27} + \frac{7}{27} =$$

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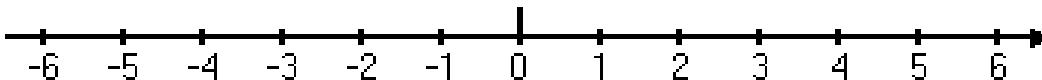
Rewrite these word sentences as number expressions and find a value of each expression. Use a number line, if necessary.

a) What number is 6 more than - 6? \_\_\_\_\_

b) What number is 2 less than - 4? \_\_\_\_\_

c) What number is double of number 3? \_\_\_\_\_

d) What number is half of number 4? \_\_\_\_\_



12

Calculate using and optimal way (Hint: use commutative property of addition):

$$6 + 15 + 133 + 85 + 267 = \underline{\hspace{2cm}}$$

$$17 + 700 + 213 + 300 = \underline{\hspace{2cm}}$$

$$288 + 311 + 17 + 112 + 189 + 33 = \underline{\hspace{2cm}}$$

HW 27

Negative numbers. Coordinate plane

13.

Long division.

$$2,976 \div 4 =$$

$$5,831 \div 7 =$$



14

Compare without calculation, using  $<$ ,  $>$  or  $=$ .

$$(14 + 21) + (21 + 14) \dots (14 + 21) \times 3$$

$$37 + 24 + 24 + 37 \dots (37 + 24) \times 2$$

$$(34 + 19) - (37 - 37) \dots 0$$

$$(28 + 22) \div (150 - 100) \dots 0$$

$$(a + b) - (a + b) \dots 1$$

$$2(a + b + c) \dots 2a + b + c$$

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Find the points which would be opposite to the following points (reflection over Point 0):

a)  $6 \rightarrow$

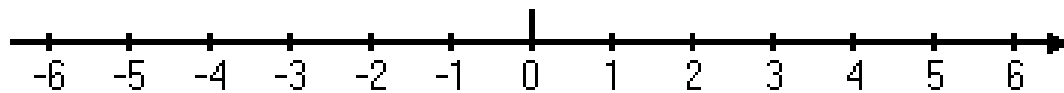
b)  $(-3) \rightarrow$

c)  $1 \rightarrow$

d)  $(-1) \rightarrow$

e)  $(-2) \rightarrow$

f)  $(-5) \rightarrow$



16

Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given

fractions with equivalent fractions. *Example:*  $\frac{2}{3} + \frac{5}{4} = \frac{8}{12} + \frac{15}{12} = \frac{23}{12} = 1 \frac{11}{12}$ .

a) Use each common denominator to find the value of  $1/2 - 1/14 =$

b) Use each common denominator to find the value of  $5/9$  of  $5/9 - 1/6$