Math 3 Homework 27

TIME this page work_____

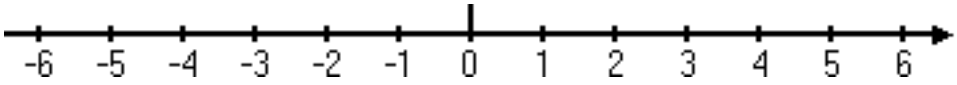
1 Write down the next five terms (use a number line if necessary):

a) –1, – 3, – 5, – 7, …

b) 5, 0, – 5, –10, ….

c) 11, 5, – 1, –7, …

d) –11, – 8, – 5, …

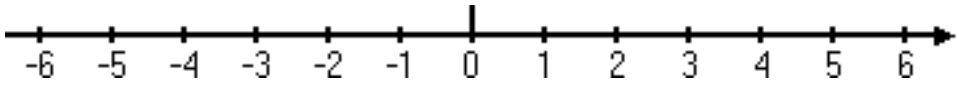


2 The temperature on Monday morning is -5˚C. The temperature on Friday morning is 1˚C. How much warmer is it on Friday morning than on Monday morning? _____

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 …. – 1

b) – 2 … 2

c) –10 … – 1

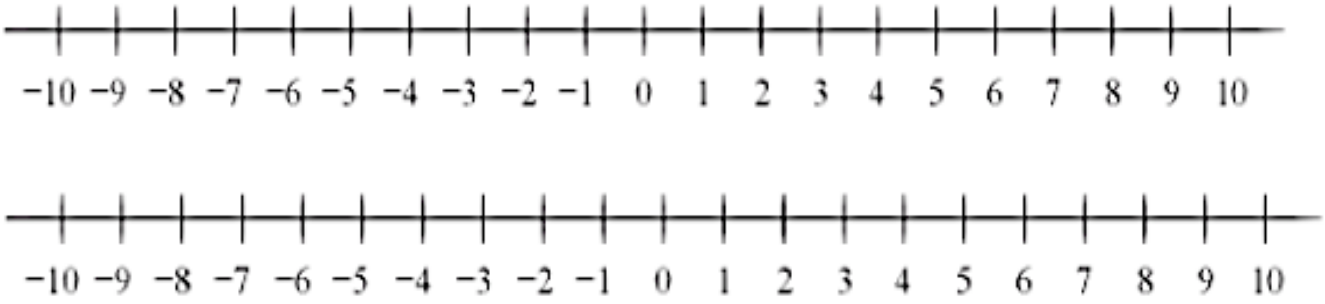
Report the time you spent on page 1: _____

HW 27 Negative numbers. Coordinate plane

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

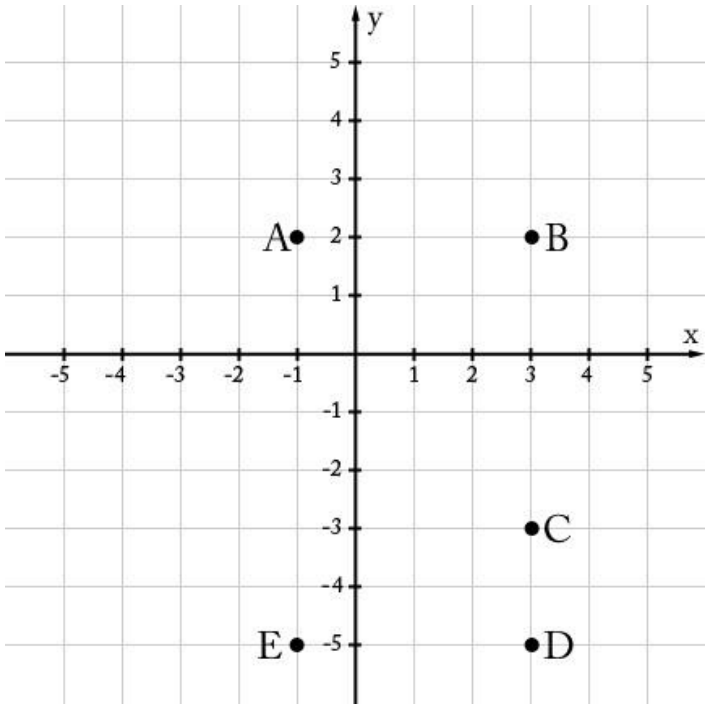
a) –8 + 2 = b) – 4 + 9 = c) –7 + 5 = d) –10 + 12 =

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?

_____

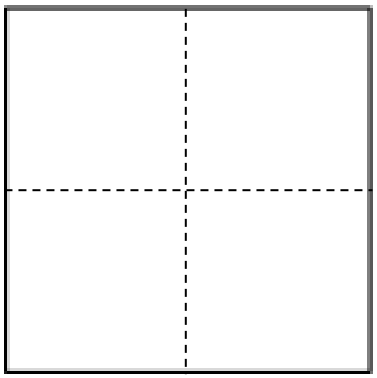
What is the distance between points B & C?

_____

7 Simplify the following fractions:

$\frac{5}{40}$ = $\frac{11}{44}$ = $\frac{12}{44}$ = $\frac{27}{27}$ = $\frac{14}{12}$ =

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:

$\frac{1}{2} + \frac{1}{3} =$ $\frac{1}{4} + \frac{3}{4} =$ $\frac{5}{9} + \frac{1}{3} =$ $\frac{2}{27} + \frac{7}{27} =$

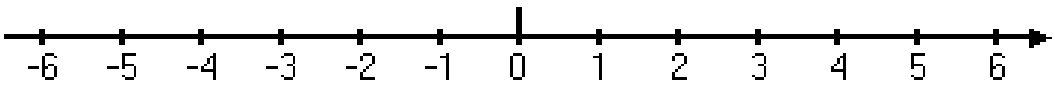
11 Rewrite these word sentences as number expressions and find a value of each expression. Use a number line, if necessary.

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 = _____

17 + 700 + 213 + 300 =_____

288 + 311 + 17 + 112 + 189 + 33 = _____

13. Long division.

2,976 ÷ 4 = 5,831 ÷ 7 =

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

(14 + 21) + (21 + 14) … (14 + 21) × 3

37 + 24 + 24 + 37 … (37 + 24) × 2

(34 + 19) – (37 – 37) … 0

(28 + 22) ÷ (150 – 100) … 0

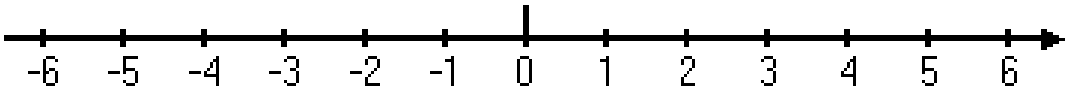
(a + b) – (a + b) … 1

2(a + b + c) … 2a + b + c

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

a) 6 → b) (–3) → c) 1 →

d) (– 1) → e) (– 2) → f) (–5) →



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 −1/6