KEY KEY

Grade 7 – N5 #5

11) Which number is between $\frac{3}{4}$ and 0.8?

75% 80%

a. 0.810 b. 0.25 c. 0.760 d. 1.40

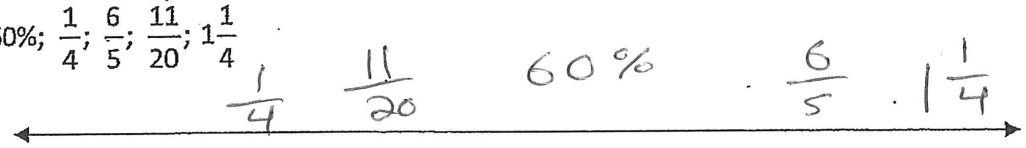
= 76%

12) Which is greater: 0.300 or $\frac{3}{8}$? How do you know?

0.300 < 0.375

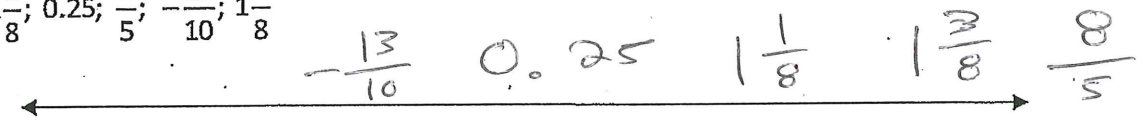
13) Place the following fractions on a number line:

60%; $\frac{1}{4}$; $\frac{6}{5}$; $\frac{11}{20}$; $1\frac{1}{4}$



14) Place the following numbers on a number line:

$1\frac{1}{8}$; 0.25; $\frac{8}{5}$; $-\frac{13}{10}$; $1\frac{3}{8}$



15) Who am I?

$\frac{1}{2}$ $\frac{5}{12}$ $\frac{1}{4}$ $\frac{8}{12}$ $\frac{2}{3}$

I am less than one-half.

I am greater than one-third.

My denominator is a multiple of three.

I am simplified. I am _____. $\frac{5}{12}$

16) Suzie and Polly both worked very hard and have nearly completed their math assignment. Suzie has completed $\frac{5}{6}$ of the project and Polly has completed 0.8 of her project. Who was closer to completing the assignment? How do you know this?

$\frac{5}{6} = 0.8\overline{3}33 > 0.8$

So Suzi is closer to finishing.

Grade 7 – N6 #3

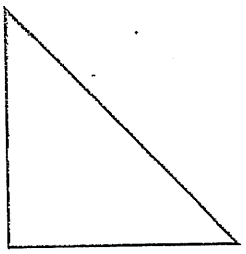
1) Calculate. $-7 + (-8)$ $= -15$
2) Calculate. $-2 + 4$ $= +2$
3) Calculate. $-9 + (-3)$ $= -12$
4) Calculate. $4 - 10$ $= -6$
5) Calculate. $-8 - 20$ $= -28$
6) Calculate. $20 - (-30)$ $= 20 + (+30) = +50$
7) Calculate. $-11 - (-1)$ $= -10$
8) Calculate. $-7 - (-12)$ $= +5$
9) Calculate. $-6 - (-4)$ $= -6 + (+4) = -2$
10) Calculate. $26 + (-11) - (-8)$ $26 + (-11) + (+8) = +23$
11) Calculate. $-13 - (-15) + 7$ $-13 + (+15) + 7 = +9$
12) Calculate. $17 + (-12) - (-9)$

$17 + (-12) + (+9)$

$= +14$

Grade 7 – SS2 #2

5) Why is the area of this triangle not 42 cm^2?

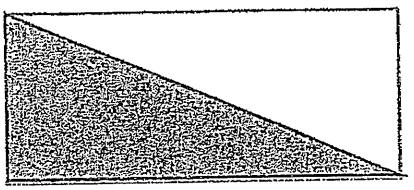


Height = 7 cm ›Base= 6 cm

because you have the formula $\frac{b.h}{2}$

42 cm^2 is not divided by 2

6) The area of a rectangle is 28 cm^2. What is the area of the shaded triangle?

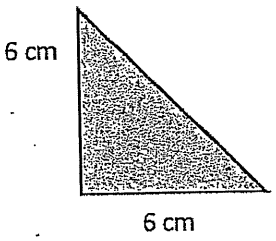


28 cm^2 for full rectangle

÷ 2 gives 40

14 cm^2 for the triangle.

7) Find the area of the triangle.

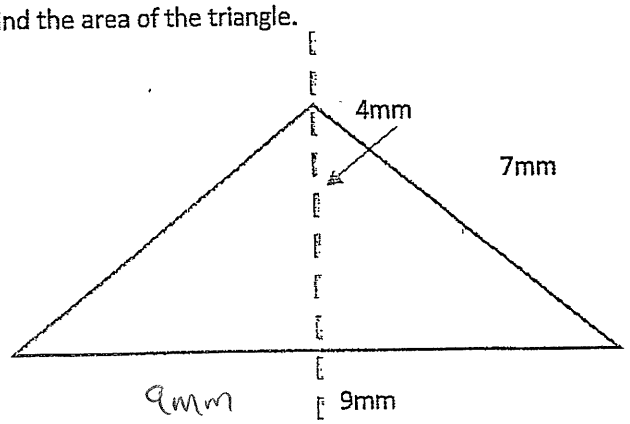


$A = \frac{bh}{2}$

$= \frac{6(6)}{2}$

$= 18 cm^2$

8) Find the area of the triangle.



$= 18mm$

$A = \frac{bh}{2}$

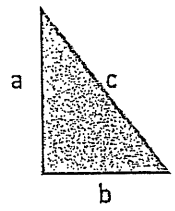
$= \frac{18(4)}{2}$

$= \frac{72}{2}$

$= 36 mm^2$

Grade 7 – SS2 #2

1) Which letter on the triangle represents the base?

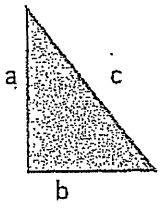


a = height

b = base

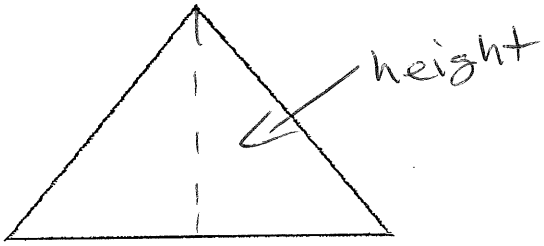
c = hypotenuse → longest side

2) Which letter on this triangle represents the height?

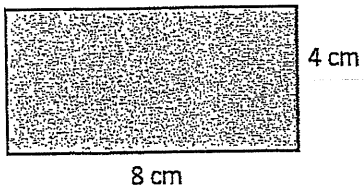


a = height

3) Draw a line that represents the height of this triangle.



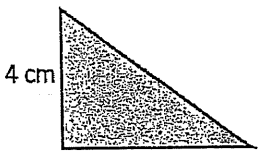
4) Find the area of the triangle and the rectangle.



$A = lw$

$= 4(8)$

$= 32\ cm^2$



$A = \frac{bh}{2}$

$= \frac{5(4)}{2}$

$= 10\ cm^2$

Grade 7 – SS1 #3

(Show your work and transfer answers to grey strip at right.)

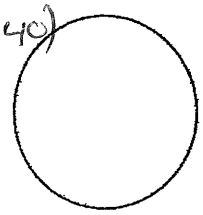
1) Calculate the circumference. Use 3.14 for π .

$C = \pi d$

$C = 3.14(40)$

$C = 125.6$ cm

A 12.738 cm
B 62.8 cm
C 125.6 cm
D 251.20 cm



d = 40 cm

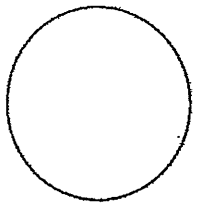
2) Calculate the circumference. Use 3.14 for π .

$C = 2\pi r$

$C = 2(3.14)(15)$

$C = 94.2$ cm

A 47.1 cm
B 94.2 cm
C 4.78 cm
D 23.55 cm



r = 15 cm

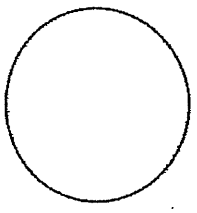
3) Calculate the diameter of the circle. Use 3.14 for π .

$C = \pi d$

$\frac{30}{3.14} = \frac{3.14d}{3.14}$

$9.55\text{cm} = d$

A 9.55 cm
B 4.78 cm
C 94.2 cm
D 47.1 cm



c = 30 cm

4) Calculate the radius of the circle. Use 3.14 for π .

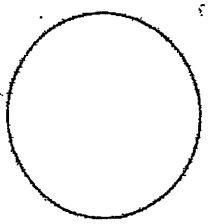
$C = 2\pi r$

$20 = 2(3.14)r$

$\frac{20}{6.28} = \frac{6.28r}{6.28}$

$3.18\text{cm} = r$

A 6.37 cm
B 62.8 cm
C 12.73 cm
D 3.18 cm



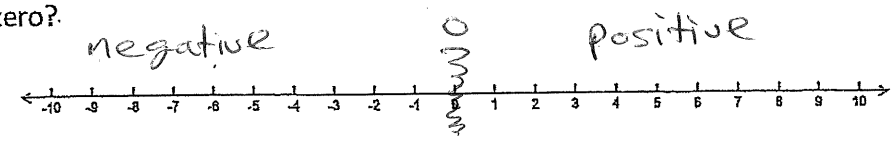
c = 20 cm

ANSWERS

1. A B C D
2. A B C D
3. A B C D
4. A B C D

Grade 7 – SS4

1) Identify the negative side and the positive side of the number line. What do you notice about the zero?

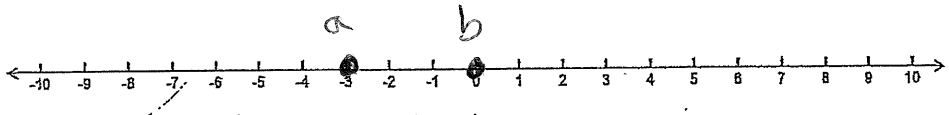


2) Draw a number line that represents negative ten to positive ten.

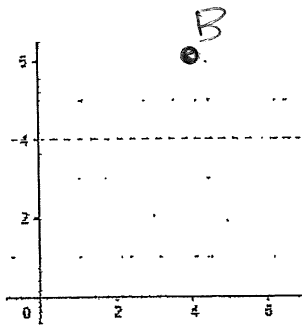
3) Plot and label the following points on a number line:

a. -3

b. 0



4) Plot the coordinate B (4,5) on the Cartesian plane.



5) Plot the ordered pair (3, 2) on the coordinate grid. Label it as point F.