

Year 7 –Mathematics

End of Year Paper 2

Name: _____

Teacher: _____

Total 60 marks

Time allowed : 45 minutes

No Calculators Allowed

1. a. Find $\frac{5}{8}$ of 56

_____ (2)

b. Find 45% of 180

_____ (2)

2. a. Find the value of

$$309 \times 74$$

_____ (3)

b. Put these calculations in ascending order

$$30.9 \times 7.4, \quad 3.09 \times 740, \quad 30\,900 \times 7.4, \quad 30.9 \times 740$$

_____ (1)

3. Circle the 3 values which sum to 1 from the list below.

0.16, 0.28, 0.36, 0.38, 0.56

_____ (2)

4. Use short division to calculate

$$2821 \div 7$$

_____ (2)

5. Here is a sequence

$$-11, -8, -5, -2, \dots$$

a. Find the next 2 terms of the sequence

_____ (2)

b. Find the n^{th} term in the sequence

_____ (2)

c. Find the 50th term of the sequence

_____ (2)

d. Will the number 300 appear in the sequence? Please explain your answer.

(2)

6. Find the value of the following expressions if

$$a = 0.2, \quad b = 6, \quad c = -4$$

a. $3b + 2c$

_____ (3)

b. abc

_____ (3)

c. $c^2 - 15a$

_____ (3)

7. Calculate the following. Give your answer as a simplified mixed number.

a. $\frac{11}{12} + \frac{7}{12}$

_____ (1)

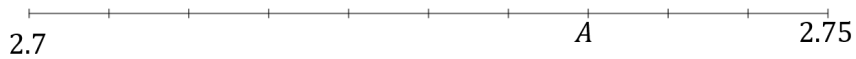
b. $\frac{11}{12} - \frac{2}{3}$

_____ (2)

c. $\frac{10}{12} + \frac{15}{18}$

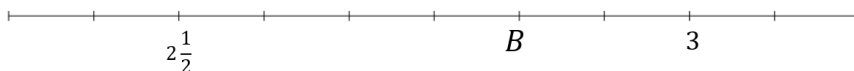
_____ (2)

8. a. Find the value marked X on this number line. Give your answer as a decimal.



_____ (2)

b. Find the value marked X on this number line. Give your answer as a fraction.



_____ (2)

c. Put the correct symbol (<, >, =) between these two values.

$A \quad B$

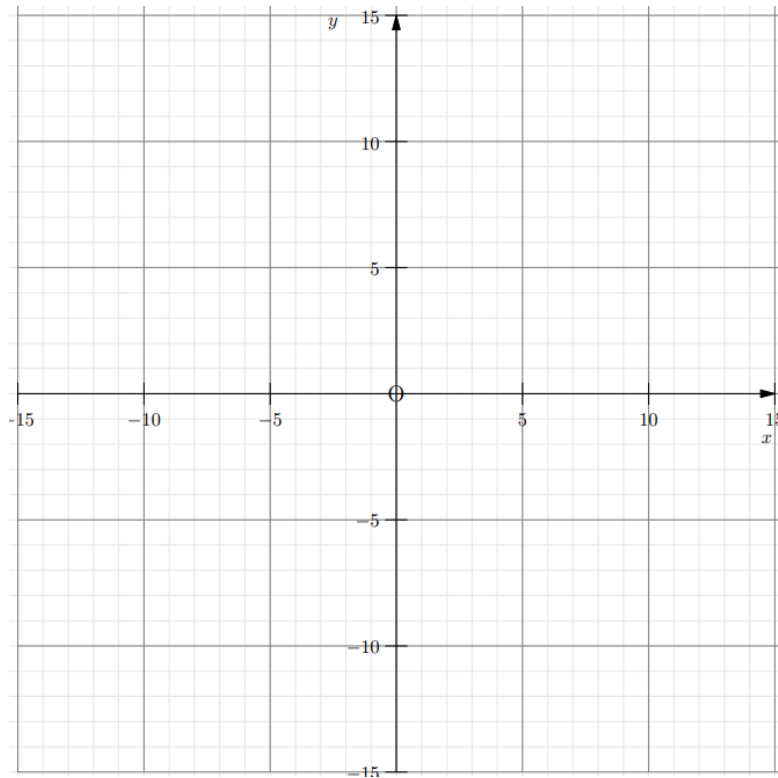
(1)

9. Put these calculations in ascending order.
Please show all working for this question.

$$\frac{1}{3} + 2, \quad 2 - \frac{1}{3}, \quad 2 \times \frac{1}{3}, \quad 2 \div \frac{1}{3}, \quad \frac{1}{3} \div 2$$

(4)

10.



- a. Draw the line $y = x + 4$ (2)

- b. Draw the line $x + y = 12$ (2)

- c. Dev has cats and dogs and no other pets.

He has 12 pets in total, and has 4 more dogs than cats.

How many dogs and how many cats does Dev have?

Dogs: ____

Cats: ____ (2)

11. Solve the following equations

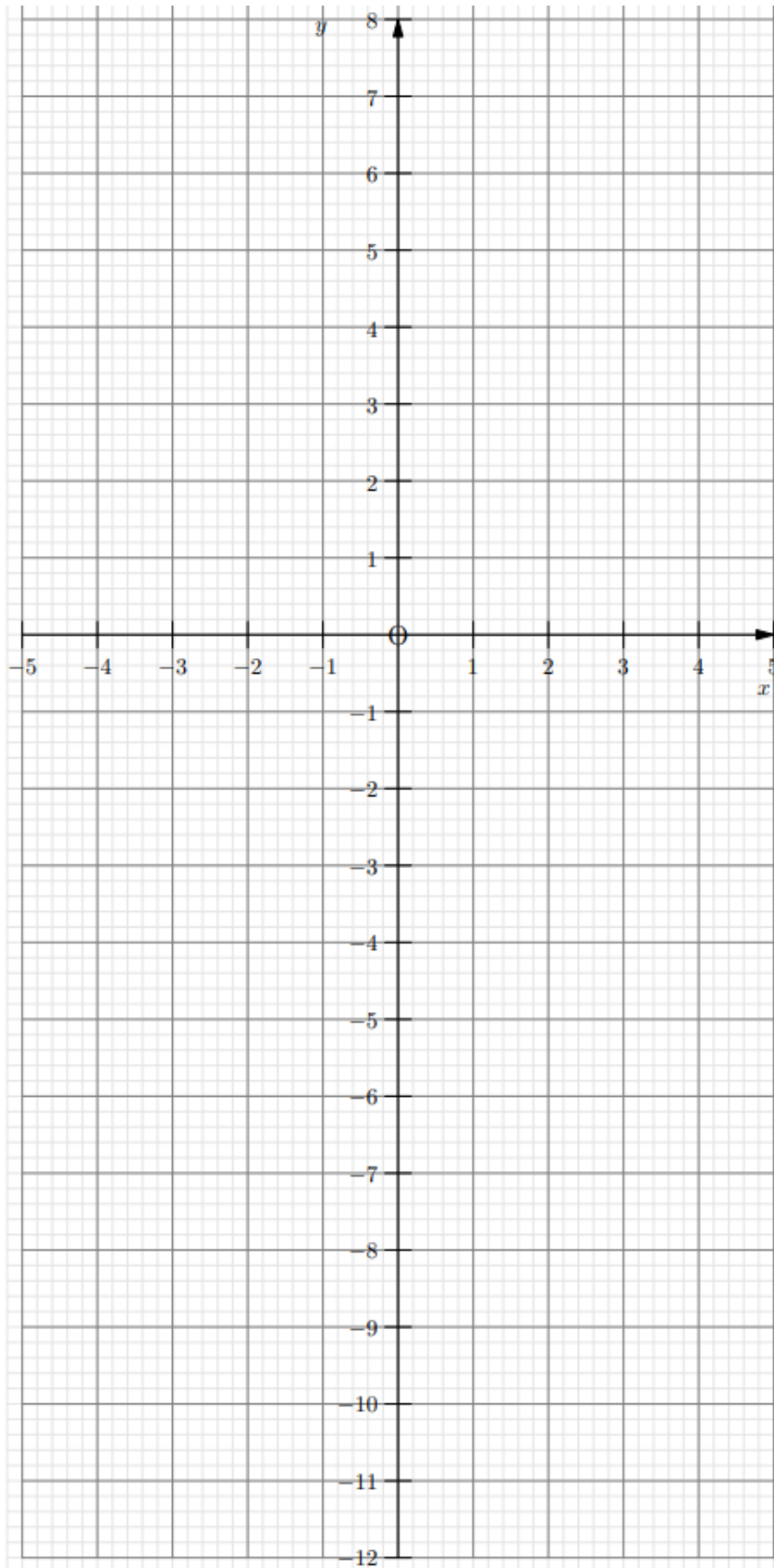
a. $2h + 12 = 23$

b. $-4w - 3 = -1$ _____ (2)

c. $1.2x + 3.4 = 1.6$ _____ (3)

_____ (3)

12. Draw the graph of $y = 2x - 6$



(3)