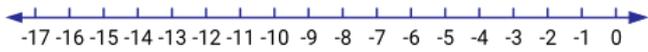


Year 8 Class 1-4 questions

Q1

Use the number line to help answer.

$$-17 + 17 = \square$$



Q2

$$7 - (-8) = \square$$

Q3

$$25 - 3 \times (2 + 6) = \square$$

Q4

$$6 \times (3^2 - 5) = \square$$

Q5

$$16 + 14 \div -2 \times (7 - -1) = \square$$

Q6

Arrange in ascending order.

- 0.98

0.45

$\frac{1}{2}$

0.109

Q7

Round off 87.1126 to 3 decimal places.

$$87.1126 = \square \text{ (3 d.p.)}$$

Q8

$$115 - -3 \times -9 = \square$$

Q9

$$\frac{897 \div 39 \times 2}{299 \div 13} = \square$$

Q10

$$\sqrt{8.1 \times 0.1} = \square$$

Q11

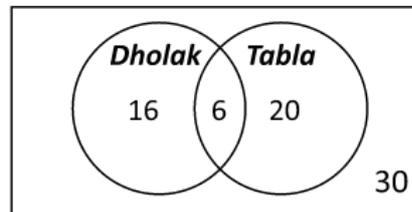
$$-8 + (-7) = \square$$

Q12

$$[7 \times -2 + -1] \div -3 = \square$$

Q13

Mr Krishna's music students were asked what instruments they play.



How many of those who play tabla also play Dholak?

What percentage of those who play Dholak also play tabla? % (1 d.p.)

Find the probability a student chosen at random plays both Dholak and tabla?

Q14

32 students are in a class. 18 own a cat, 8 own both a dog and a cat and there are 5 who own neither. Complete the table.

	Dog	No dog	Total
Cat	8	<input type="text"/>	<input type="text"/>
No Cat	<input type="text"/>	5	<input type="text"/>
Total	<input type="text"/>	<input type="text"/>	32

How many own a dog?

What percentage of cat owners also own a dog? % (1 d.p.)

Q15

Three cards labelled 1, 2 and 3 are placed in a hat. Two cards are drawn out one at a time and placed next to each other to form a two digit number.

What is the probability that the number formed is 12?

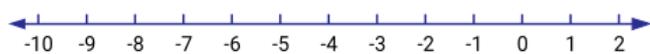
What is the probability that the number formed contains a 3?

What is the probability that the number formed is even?

Q16

Use the number line to help answer.

$$-3 - 5 = \square$$



Q17

Use the number line to help answer.

$$-3 - 7 = \square$$



Q18

$$-6 + (-10) = \square$$

Q19

$$-8 + (-20) = \square$$

Q20

$$\frac{38 - 18}{2 \times 6 \div 3} = \square$$

Q21

$$2 \times \{18 \div (7 - 4)\} = \square$$

Q22

$$[2^3 + 4^2] \div (9 - 3) = \square$$

Q23

$$[(11 - 5) \times 2]^2 - 6 = \square$$

Q24

Fill in the missing number that makes this number sentence correct.

$$-6 - (\square \times -2) = -12$$

Q25

Fill in the missing number that makes this number sentence correct.

$$(-12 - \square) \div -3 = 3$$

Q26

Arrange in ascending order.

0.952 1.1 $1\frac{3}{5}$ 1.75

Q27

Arrange in ascending order.

$1\frac{7}{10}$ 1.2 1.864 $1\frac{1}{4}$

Q28

Round off 17.663 to the nearest whole number.

$17.663 = \text{[]}$
(nearest whole no.)

Q29

Round off 88.1126 to the nearest hundredth.

$88.1126 = \text{[]}$
(nearest hundredth)

Q30

$(-12 + -6) \times -16 = \text{[]}$

Q31

$(26 + -13) \times 4 \div (6 + -4) = \text{[]}$

Q32

$\frac{38.5 + (2.6 - 1.3)}{(842 - 36) \times 0.1} = \text{[]}$ (1 d.p.)

Q33

$\frac{(26.8 + 13.3) \div (3.1 + 2)}{14.7 \times 0.5} = \text{[]}$ (1 d.p.)

Q34

$\left(\frac{178 \div 8}{1.8 + 0.7}\right)^2 = \text{[]}$

Q35

$16^2 - 4 \times 8 = \text{[]}$

Q36

$-12 + (-15) = \text{[]}$

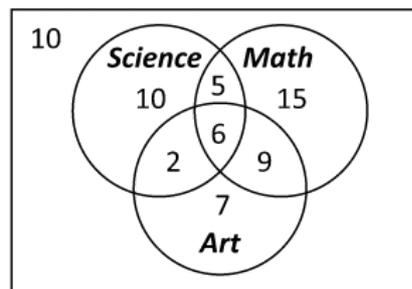
Q37

Find the missing number that makes this number sentence correct.

$-5 - \text{[]} \times 3 = -2$
-1 1 -3 -2

Q38

Student in class were asked which subject they like.



How many like both Science and Mathematics?

What percentage like all three subjects?
 % (1 d.p.)

How many like both Art and Science but not Mathematics?

Q39

A travel company offers 15 tours. 9 of the tours include mountain climbing, 7 include diving and 5 tours include both mountain climbing and diving. Complete the table.

	Mountain Climbing	No Mountain Climbing	Total
Diving	<input type="text"/>	<input type="text"/>	<input type="text"/>
No Diving	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total	<input type="text"/>	<input type="text"/>	<input type="text"/>

How many tours include mountain climbing but not diving?

What percentage of the diving tours also include mountain climbing?

% (1 d.p.)

Q40

A box contains two pink cricket balls and one red cricket ball. Isaac is given one ball from the box which he keeps and then Ryder is given a second ball.

What is the probability that they are both given a pink ball?

What is the probability that Isaac is given a red ball and Ryder is given a pink ball?

If this process is repeated 30 times, how many times would you expect them both to be given different coloured balls?
