N033 Fractions 1

Q1.

Write 0.075 as a fraction.
Give your fraction in its simplest form.

....

(Total for question = 2 marks)

Q2.

Here are four fractions.

$$\frac{1}{2} \qquad \frac{17}{24} \qquad \frac{3}{4} \qquad \frac{5}{12}$$

Write these fractions in order of size.
Start with the smallest fraction.

....

(Total for question is 2 marks)

Q3.

Here are four fractions.

$$\frac{2}{5} \qquad \frac{11}{30} \qquad \frac{1}{2} \qquad \frac{7}{15}$$

Write these fractions in order of size.
Start with the smallest fraction.

....

(Total for question = 2 marks)

Q4.

Here are four numbers.

$$0.43 \qquad \frac{3}{7} \qquad 43.8\% \qquad \frac{7}{16}$$

Write these numbers in order of size.
Start with the smallest number.

....

(Total for question = 2 marks)

Q5.

Sue has 2 cats.

Each cat eats $\frac{1}{4}$ of a tin of cat food each day.

Sue buys 8 tins of cat food.

Has Sue bought enough cat food to feed her 2 cats for 14 days?
You must show how you get your answer.

(Total for question = 3 marks)

Q6.

Bill has 400 counters in a bag.

He gives

    35 of the counters to Sameena
    50 of the counters to Henry
    75 of the counters to Lucas

What fraction of the 400 counters is left in Bill's bag?
Give your fraction in its simplest form.

....

(Total for question = 3 marks)

Q7.

Find the number that is exactly halfway between $\frac{1}{10}$ and $\frac{3}{5}$

....

(Total for question = 2 marks)

Q8.

Dylan buys 13 bicycle lights for £7.50 each.
He pays with five £20 notes.

(a) How much change should Dylan get?

£ ....

(3)

The normal price of a bicycle is £120

In a sale, there is $\frac{1}{5}$ off the normal price of the bicycle.

(b) Work out the price of the bicycle in the sale.

£ ....

(2)

(Total for question = 5 marks)

Q9.

Write an integer in the box to make the statement true.

$$\frac{2}{7} > \frac{6}{\Box}$$

Explain why the statement is true.

....

....

(Total for question = 2 marks)

Q10.

There are 495 coins in a bottle.

$\frac{1}{3}$ of the coins are £1 coins.

124 of the coins are 50p coins.
The rest of the coins are 20p coins.

Work out the total value of the 495 coins.

£ ....

(Total for question = 4 marks)

Q11.

There are 375 pupils at a school.
195 of the pupils are boys.

$\frac{3}{5}$ of the boys walk to school.

$\frac{2}{3}$ of the girls walk to school.

Work out how many pupils walk to school.

....

(Total for question = 3 marks)

Q12.

Sam buys 20 boxes of oranges.
There are 25 oranges in each box.

Each boxes of oranges costs £7

Sam sells $\frac{2}{5}$ of the oranges he bought.

He sells each of these oranges for 40p.

He then sells each of the remaining oranges at 3 oranges for 50p.
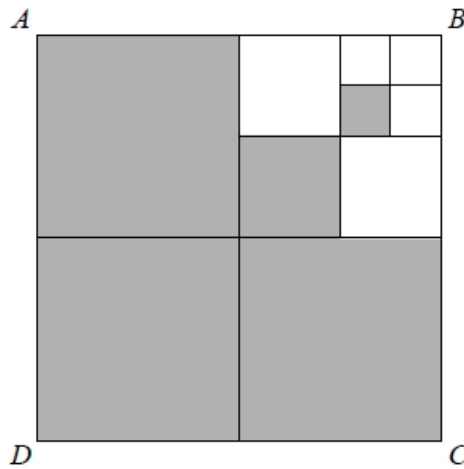
Did Sam make a profit or did Sam make a loss?
You must show working to justify your answer.

(Total for question = 5 marks)

Q13.

ABCD is a square.
This diagram is drawn accurately.

What fraction of the square *ABCD* is shaded?

....

(Total for question = 2 marks)

Q14.

$\frac{4}{5}$ of a number is 32

Find the number.

....

(Total for question = 2 marks)

Q15.

Jim thinks of a number.

$\frac{2}{3}$ of Jim's number is 48

Work out $\frac{5}{6}$ of Jim's number.

....

(Total for question = 2 marks)