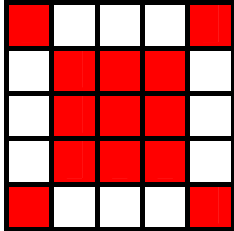


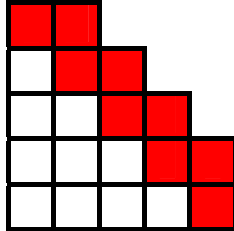
FRACTIONS 1

1) What fraction of the boxes are coloured in?

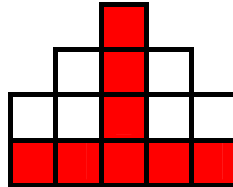
a)



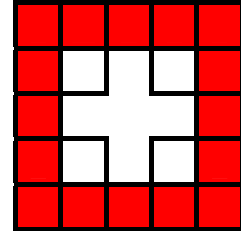
b)



c)



d)



2) Work out these amounts:

a) $\frac{2}{5}$ of £10

b) $\frac{3}{4}$ of 3 kg

c) $\frac{2}{7}$ of 14€

d) $\frac{3}{4}$ of 2 km

3) Write the fractions in its lowest terms:

a) $\frac{15}{20} =$

b) $\frac{33}{22} =$

c) $\frac{27}{99} =$

e) $\frac{25}{30} =$

f) $\frac{26}{39} =$

g) $\frac{21}{35} =$

4) Divide each cross into the given fraction:

a) HALVES



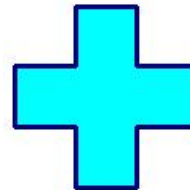
b) QUARTERS



c) FIFTHS



d) EIGHTHS



5) Work out the value of x in each one of these:

a) $\frac{18}{33} = \frac{24}{x}$

b) $\frac{14}{49} = \frac{x}{14}$

 6) I ate $\frac{2}{5}$ of my 20 candies. How many do I have left?

7) Four kids have a pizza to share equally. What fraction of pizza did each kid get?

8) Lewis has 5 euros. This is only one-fourth of the money he had last week. How much did he have last week?

 9) Mary has 21 crayons and she has to give $\frac{2}{7}$ of them to Ben. How many crayons Ben got from Mary?

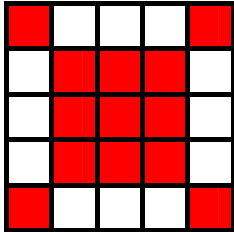
 10) There were 540 students in a school. Friday was their trip day to the museum. $\frac{2}{10}$ of the kids went by bus and $\frac{1}{10}$ of the kids went by car. How many kids went by bus? How many kids went by car?

 11) Write down these fractions: a) $\frac{6}{13}$ b) $\frac{1}{4}$ c) $\frac{2}{5}$ d) $\frac{5}{8}$

SOLUTIONS

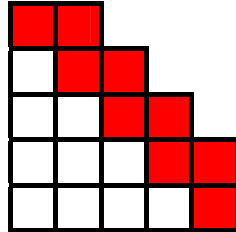
1) What fraction of the boxes are coloured in?

a)



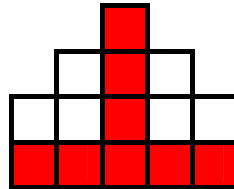
$$\frac{13}{25}$$

b)



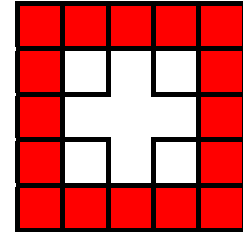
$$\frac{9}{19}$$

c)



$$\frac{8}{14} = \frac{4}{7}$$

d)



$$\frac{16}{20} = \frac{4}{5}$$

2) Work out these amounts:

a) $\frac{2}{5}$ of £10 $\rightarrow 10 \div 5 = 2 \rightarrow 2 \times 2 = 4 \rightarrow$ £4

b) $\frac{3}{4}$ of 3 kg $\rightarrow 3 \times 3 = 9 \rightarrow 9 \div 4 = 2.25 \rightarrow$ 2.25kg

c) $\frac{2}{7}$ of 14€ $\rightarrow 14 \div 7 = 2 \rightarrow 2 \times 2 = 4 \rightarrow$ 4€

d) $\frac{3}{4}$ of 2 km $\rightarrow 3 \times 2 = 6 \rightarrow 6 \div 4 = 1.5$ km

3) Write the fractions in its lowest terms:

a) $\frac{15}{20} = \frac{3}{4}$

b) $\frac{33}{22} = \frac{3}{2}$

c) $\frac{27}{99} = \frac{3}{11}$

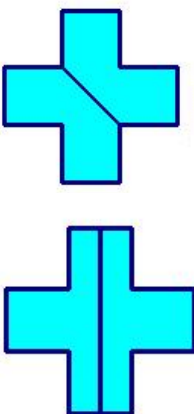
e) $\frac{25}{30} = \frac{5}{6}$

f) $\frac{26}{39} = \frac{2}{3}$

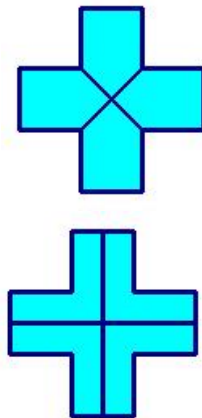
g) $\frac{21}{35} = \frac{3}{5}$

4) Divide each cross into the given fraction:

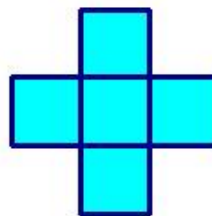
a) HALVES



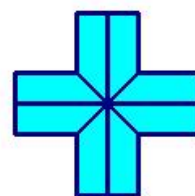
b) QUARTERS



c) FIFTHS



d) EIGHTHS



5) Work out the value of x in each one of these:

a) $\frac{18}{33} = \frac{24}{x} \rightarrow 18x = 33 \cdot 24 \rightarrow 18x = 792 \rightarrow x = 792 \div 18 \rightarrow x = 44$

b) $\frac{14}{49} = \frac{x}{14} \rightarrow 14 \cdot 14 = 49x \rightarrow 49x = 196 \rightarrow x = 196 \div 49 \rightarrow x = 4$

6) I ate $\frac{2}{5}$ of my 20 candies. How many do I have left?

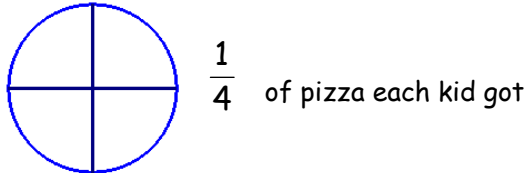
$$\frac{2}{5} \text{ of } 20 \rightarrow 20 \div 5 = 4 \rightarrow 4 \times 2 = 8$$

I ate 8 candies $\rightarrow 20 - 8 = 12$

I have left 12 candies



7) Four kids have a pizza to share equally. What fraction of pizza did each kid get?



8) Lewis has 5 euros. This is only one-fourth of the money he had last week. How much did he have last week?

$$5 \times 4 = 20$$

He had 20€ last week



9) Mary has 21 crayons and she has to give $\frac{2}{7}$ of them to Ben. How many crayons Ben got from Mary?

$$\frac{2}{7} \text{ of } 21 \rightarrow 21 \div 7 = 3 \rightarrow 3 \times 2 = 6$$

Ben got 6 crayons from Mary



10) There were 540 students in a school. Friday was their trip day to the museum. $\frac{2}{10}$ of the kids went by bus and $\frac{1}{10}$ of the kids went by car. How many kids went by bus? How many kids went by car?

$$\frac{2}{10} \text{ of } 540 = 108 \quad 108 \text{ kids went by bus}$$

$$\frac{1}{10} \text{ of } 540 = 54 \quad 54 \text{ kids went by car}$$



11) Write down these fractions: a) $\frac{6}{13}$ **six over thirteen, six thirteenths**

b) $\frac{1}{4}$ **one over four, one quarter** c) $\frac{2}{5}$ **two over five, two fifths**

d) $\frac{5}{8}$ **five over eight, five eighths**



Maths 1° ESO