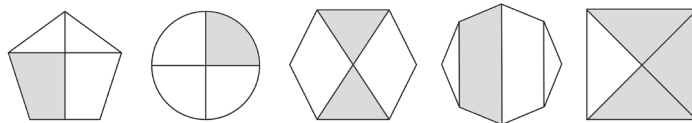




1) Which shape is exactly $\frac{1}{4}$ shaded ?



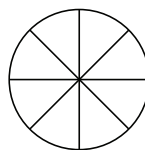
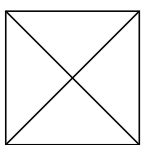
The second shape because one out of four equal parts are shaded.

2) What fraction of this shape is shaded?



$$\frac{3}{4}$$

3) Shade in $\frac{1}{2}$ of these shapes.



Shade in any 2 parts

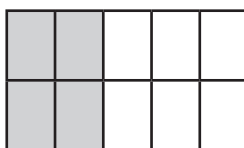
Shade in any 4 sectors

4) What fraction of this diagram is shaded?



$$\frac{7}{15}$$

5) What fraction of this shape is shaded?



$$\frac{4}{10} = \frac{2}{5}$$

GCSE Revision: Fractions

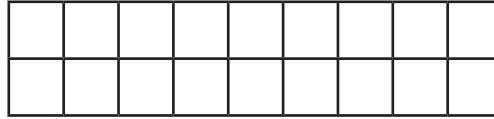
GCSE Tier: Foundation

ANSWERS

Target Grade: 1-3

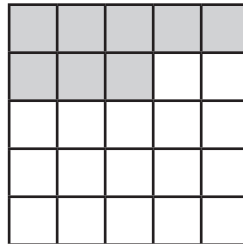


6) Shade $\frac{1}{3}$ of the rectangle below.



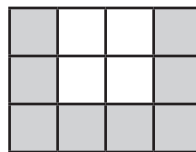
Any 6 squares shaded

7) What fraction of the rectangle below is shaded?
Give your answer in its simplest form.



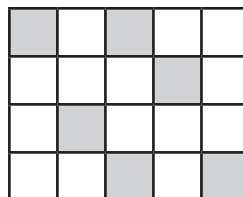
$$\frac{8}{25}$$

8) What fraction of this diagram is shaded?
Give your answer in its lowest terms.



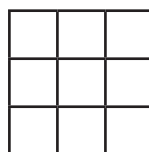
$$\frac{8}{12} = \frac{2}{3}$$

9) What fraction of the diagram is shaded?
Give your answer in its lowest terms.



$$\frac{6}{20} = \frac{3}{10}$$

10) Shade $\frac{2}{3}$ of this diagram.



Any 6 squares shaded

11) Which of the following fractions are equal to $\frac{2}{3}$?

$$\frac{6}{10} \quad \left(\frac{4}{6}\right) \quad \left(\frac{10}{15}\right) \quad \frac{4}{9} \quad \frac{3}{2}$$

$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} = \frac{10}{15} = \frac{12}{18} = \dots$$

12) Which of the following fractions are equal to $\frac{2}{7}$?

$$\left(\frac{4}{14}\right) \quad \frac{9}{35} \quad \frac{6}{20} \quad \left(\frac{12}{42}\right) \quad \left(\frac{8}{28}\right)$$

$$\frac{2}{7} = \frac{4}{14} = \frac{6}{21} = \frac{8}{28} = \frac{10}{35} = \frac{12}{42} = \dots$$

13) Use your calculator to change the following fraction into an exact decimal.

$$\frac{3}{16} = 3 \div 16 = 0.1875$$

14) Put a ring round the fractions which are equivalent to $\frac{1}{5}$.

$$\left(\frac{2}{10}\right) \quad \frac{2}{6} \quad \frac{11}{15} \quad \left(\frac{4}{20}\right) \quad \frac{12}{52}$$

0.2 0.3333 0.7333 0.2 0.2308

$$\frac{1}{5} = \frac{2}{10} = \frac{4}{20}$$

15) From the list of fractions below, choose the fraction that is nearest to 0.5. Show clear working to support your answer.

$$\frac{3}{7} \quad \frac{5}{9} \quad \frac{2}{5} \quad \left(\frac{6}{11}\right)$$

0.428 571 0.555 555 0.6 0.545 454

GCSE Revision: Fractions



GCSE Tier: Foundation

ANSWERS

Target Grade: 1-3

16) Dan thinks that $\frac{50}{10}$ is equivalent to $\frac{1}{5}$. Explain how you know that he is wrong.

$$\frac{50}{10} = 50 \div 10 = 5 \text{ not } \frac{1}{5}$$

17) Put a ring round any of the following fractions which are equal to $\frac{1}{3}$.

$$\frac{3}{5}$$

$$\frac{2}{6}$$

$$\frac{6}{12}$$

$$\frac{10}{30}$$

18) Charlie was asked to write down 5 fractions that were equivalent to $\frac{3}{4}$.
Here are his fractions.

$$\frac{30}{40}$$

$$\frac{13}{14}$$

$$\frac{9}{12}$$

$$\frac{6}{8}$$

$$\frac{39}{49}$$

Put a tick under those he got right.

Put a cross under those he got wrong.

For calculator papers, convert all quantities to decimals:

$$\frac{30}{40}$$

0.75



$$\frac{13}{14}$$

0.93



$$\frac{9}{12}$$

0.75



$$\frac{6}{8}$$

0.75



$$\frac{39}{49}$$

0.80



19) Put the correct numbers in the boxes on a copy of this number line.
Choose from this list.

$$\frac{1}{10}$$

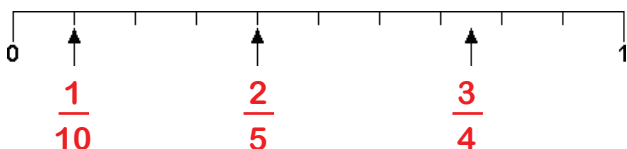
$$\frac{2}{10}$$

$$\frac{2}{5}$$

$$\frac{7}{10}$$

$$\frac{3}{4}$$

$$\frac{8}{10}$$





20) A Twix bar weighs 58 g. A quarter of the weight is fat.
How much of the weight is fat ?

$$\frac{1}{2} \text{ of } 58 = 29 \text{ g}$$
$$\frac{1}{4} \text{ of } 58 = 14.5 \text{ g}$$

To find three-quarters halve the number, halve again and multiply the answer by three.

21) Lizzie earns £60 per week. She spends $\frac{3}{4}$ of this on clothes.
How much does she spend on clothes per week ?

$$\frac{1}{2} \text{ of } 60 = \text{£}30$$
$$\frac{1}{4} \text{ of } 60 = \text{£}15$$
$$\frac{3}{4} \text{ of } 60 = \text{£}45$$

22) There are 60 people on a coach. $\frac{1}{5}$ of them are children.
Work out $\frac{1}{5}$ of 60.

$$\frac{1}{5} \times 60 = 60 \div 5 = 12$$

23) Susie has 200 CDs . Work out $\frac{5}{8}$ of 200.

$$\frac{5}{8} \times 200 = 1000 \div 8 = 125$$

24) This is a drawing of a Saturn V rocket. The first stage holds 2121 tonnes of fuel.
One third of this is kerosene. Work out $\frac{1}{3}$ of 2121 tonnes.

$$\frac{1}{3} \times 2121 = 2121 \div 3 = 707$$





- 25) A group of friends played a computer game.
Here are the scores of some of them.

Jan	4093
Pete	2605
Will	6582
Deena	4630

Dewi scored only $\frac{2}{3}$ as many points as Will.
How many points did Dewi score?

$$\frac{2}{3} \times 6582 = 13164 \div 3 = 4388$$

-
- 26) A farmer has 45 sheep. $\frac{2}{5}$ of them are black.
He sells the black sheep for £50 each.
How much does he receive ?

$$\frac{1}{5} \times 45 = 45 \div 5 = 9$$

$$\frac{2}{5} \times 45 = 9 \times 2 = 18$$

$$50 \times 18 = \text{£}900$$

-
- 27) Ben is given £85 for his birthday. He saves $\frac{2}{5}$ of it.
How much does he save ?

$$\frac{1}{5} \times 85 = 85 \div 5 = 17$$

$$\frac{2}{5} \times 85 = 17 \times 2 = 34$$

-
- 28) Work out $\frac{5}{6}$ of 12 .

$$\frac{1}{6} \times 12 = 12 \div 6 = 2$$

$$\frac{5}{6} \times 12 = 2 \times 5 = 10$$