Fractions

Exercise 1

Write down the fraction shaded in each shape.

1)

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20)
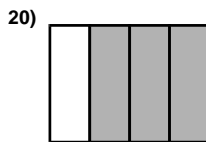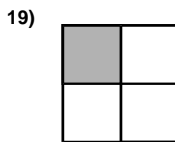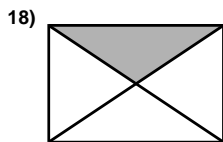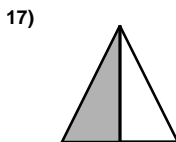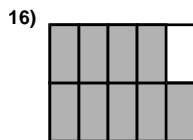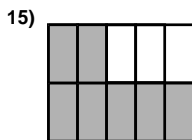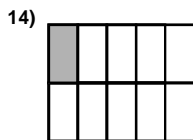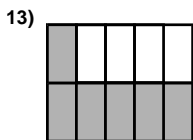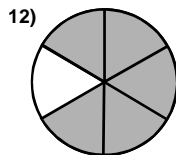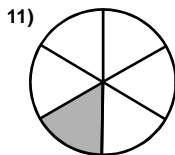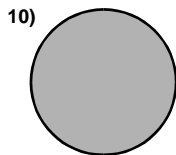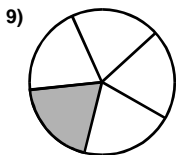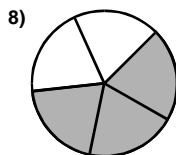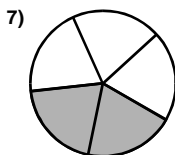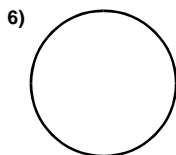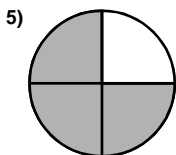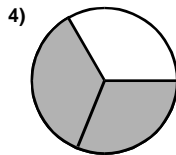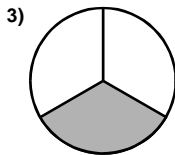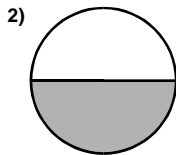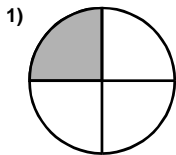
Exercise 2 - Fraction of a quantity (Single)

1) $\frac{1}{2}$ of 48   **2)** $\frac{1}{4}$ of 20   **3)** $\frac{1}{3}$ of 36   **4)** $\frac{1}{2}$ of 62

5) $\frac{1}{3}$ of 42   **6)** $\frac{1}{4}$ of 52   **7)** $\frac{1}{5}$ of 35   **8)** $\frac{1}{5}$ of 60

9) $\frac{1}{2}$ of 76   **10)** $\frac{1}{3}$ of 54   **11)** $\frac{1}{4}$ of 72   **12)** $\frac{1}{3}$ of 75

13) $\frac{1}{5}$ of 80   **14)** $\frac{1}{5}$ of 75   **15)** $\frac{1}{2}$ of 92   **16)** $\frac{1}{3}$ of 81

17) $\frac{1}{4}$ of 60   **18)** $\frac{1}{5}$ of 90   **19)** $\frac{1}{8}$ of 24   **20)** $\frac{1}{8}$ of 40

21) $\frac{1}{8}$ of 56   **22)** $\frac{1}{8}$ of 80   **23)** $\frac{1}{10}$ of 40   **24)** $\frac{1}{10}$ of 50

25) $\frac{1}{10}$ of 70   **26)** $\frac{1}{10}$ of 90   **27)** $\frac{1}{5}$ of 85   **28)** $\frac{1}{2}$ of 48

29) $\frac{1}{8}$ of 96   **30)** $\frac{1}{3}$ of 96   **31)** $\frac{1}{2}$ of 13   **32)** $\frac{1}{2}$ of 19

Exercise 3 – Fractions of a quantity

1) $\frac{1}{3}$ of 138   **2)** $\frac{1}{5}$ of 450   **3)** $\frac{1}{8}$ of 480

4) $\frac{1}{10}$ of 560   **5)** $\frac{1}{20}$ of 860   **6)** $\frac{1}{100}$ of 3800

**7)** $\frac{2}{3}$ of 156   **8)** $\frac{3}{5}$ of 935   **9)** $\frac{2}{5}$ of 470

10) $\frac{3}{8}$ of 576   **11)** $\frac{5}{8}$ of 192   **12)** $\frac{7}{8}$ of 304

13) $\frac{3}{10}$ of 370   **14)** $\frac{5}{8}$ of 128   **15)** $\frac{7}{10}$ of 790

16) $\frac{9}{10}$ of 450   **17)** $\frac{3}{20}$ of 660   **18)** $\frac{3}{8}$ of 776

19) $\frac{7}{20}$ of 780   **20)** $\frac{9}{20}$ of 540   **21)** $\frac{7}{20}$ of 540

22) $\frac{4}{5}$ of 145   **23)** $\frac{3}{10}$ of 650   **24)** $\frac{3}{8}$ of 424

25) $\frac{7}{8}$ of 360   **26)** $\frac{3}{5}$ of 480   **27)** $\frac{3}{10}$ of 120

28) $\frac{4}{5}$ of 290   **29)** $\frac{7}{10}$ of 240   **30)** $\frac{7}{8}$ of 496

Exercise 4 - Problems

1) a) A football match last 90 minutes. How long is the first half?

    b) A rugby match lasts 80 minutes. How many minutes does the first quarter last?

2) Brian has 45p, but he owes $\frac{1}{5}$ of it to Peter.
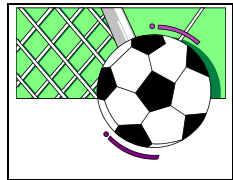
    a) How much does he owe to Peter?   **b)** How much does he have left?

3) $\frac{3}{10}$ of class of 30 pupils are absent.

    a) How many are absent?   **b)** How many are present?

4) 42 cars are in the car park. $\frac{1}{3}$ of them are blue.

How many blue cars are there?

5) Calculate these amounts in pence.

a) $\dfrac{1}{10}$ of £1 **b)** $\dfrac{3}{10}$ of £2 **c)** $\dfrac{3}{4}$ of £1 **d)** $\dfrac{1}{2}$ of £5

e) $\dfrac{1}{5}$ of £2 **f)** $\dfrac{2}{3}$ of £1.50

6) John gets $\dfrac{2}{3}$ of £72 as a prize. How much money does he get?

7) A tank holds 1600 litres of oil when it is full. If it is $\dfrac{1}{4}$ full, how many litres have been used?

8) Calculate

a) $\dfrac{2}{3}$ of 12cm $\dfrac{2}{3}$ **b)** $\dfrac{3}{4}$ of 20 pupils

c) $\dfrac{2}{5}$ of 30 grams **d)** $\dfrac{7}{8}$ of 24 days

9) There are 60 minutes in an hour. How may minutes are there in:

a) $\dfrac{1}{2}$ hour **b)** $\dfrac{1}{4}$ hour **c)** $\dfrac{3}{4}$ hour **d)** $\dfrac{1}{3}$ hour

10) In a test, $\dfrac{1}{5}$ of the pupils will be given an **A** grade, $\dfrac{1}{2}$ a **B** grade, $\dfrac{1}{4}$ a **C** grade and the rest a **D** grade.
Out of a group of 40 pupils, how many will get each grade?

11) Calculate

a) $\dfrac{3}{4}$ of £100 **b)** $\dfrac{1}{10}$ of £120 **c)** $\dfrac{3}{8}$ of £40 **d)** $\dfrac{2}{5}$ of £35

12) There are 90° in a right angle. How many degrees are in:

a) $\dfrac{2}{3}$ of a right angle **b)** $\dfrac{3}{4}$ of a right angle **c)** $\dfrac{3}{5}$ of a right angle

13) $\dfrac{2}{3}$ of a person's weight is water. Jean weighs 63 kg.

How much of this is water?

14) Calculate

a) $\dfrac{3}{10}$ of 240 m   **b)** $\dfrac{2}{3}$ of 210 kg **c)** $\dfrac{3}{5}$ of 600 pupils **d)** $\dfrac{5}{8}$ of 120 cm

15) Calculate the length of video tape needed to record **two** TV programmes each lasting $\dfrac{3}{4}$ of an hour.