Schofield & Sims

A | Answer

1 £0.175 × 2 = ▓ p   35p

2 5% of £44 =   £2.20

3 4.056kg + ▓ g = 4.75kg   694g

4 (9 × 10⁴) =   90000

5 £50.04 ÷ 3 =   £16.68

6 ($\frac{7}{8}$ of 56) + ($\frac{2}{3}$ of 30) =   69

7 £0.34 × 50 = £   £17.00

8 $\frac{17}{25}$ = $\frac{68}{100}$ = ▓ % $\frac{68}{100}$ = 68%

9 3m ÷ 6 = ▓ mm   500mm

10 250ml × 16 = ▓ l   4l

11 $\frac{7}{10}$ ÷ 3 = $\frac{7}{30}$

12 500 − (5 × 8 × 7) =   220

B | Answer

1 By how many is 100000 less than
   1 million? Write the answer in digits.   900000

2 Find the product of 30 and 3$\frac{2}{5}$.   102

3 Find the difference between 1min 43.5s
   and 1min 47.4s.   3.9s

4 How many 0.3m lengths can be cut
   from 7.5m?   25

5 By how many hundredths is $\frac{3}{4}$ more
   than 0.7?   5 hundredths

6 Share $35 in the ratio 5:2. $25 $10

7 The area of a parallelogram is 12.64m².
   The base is 8m long. Find the height
   in metres.   1.58m

8 Multiply £40 by 19.   £760

9 What percentage of 4m is 50cm?   12$\frac{1}{2}$%

10 Find the total contents in litres of eight
    bottles each containing 355ml.   2.84l

11 $\frac{3}{4}$ of a sum of money is £1.50.
    Find the whole amount.   £2.00

12 Write in its simplest form the answer
   to $\frac{8}{10}$ divided by 4. $\frac{1}{5}$

C | Answer

1 One litre costs £4.20. Find the cost
   of 1.75l.   £7.35

2 a How many centuries does
      the timeline represent?   a 40

   b How many years are represented
      on the timeline from X to Y?   b 1800

       X   Y
   |————————————————————|
   2000   0   2000
   BCE   CE   CE
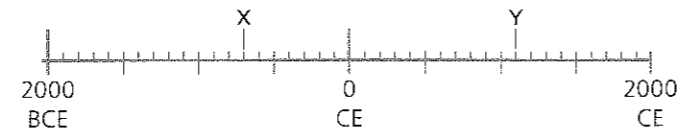
3 A hundred 10ps were placed edge to
   edge in a straight line. The diameter of
   a 10p coin is 24.5mm. Find the length
   of the line in metres.   2.45m

4 Write 30cm of 1m as

   a a fraction in its simplest form   a $\frac{3}{10}$

   b a percentage.   b 30%

5 The volume of a cube is 1000cm³. Find

   a the length of one edge   a 10cm

   b the total surface area in cm².   b 600cm²

6 Follow this number chain. What number
   do you reach? Start at −10 → add 6 →
   subtract 4 → add 9 → subtract 5 → stop.   −4

7   The shape is a
                          regular hexagon.

   a How many degrees
      are there in each
      angle at the centre?   a 60°

   b How many degrees are there
      in each angle at the centre
      of a regular octagon?   b 45°

8 Round each quantity to the nearest whole
   unit and then find the approximate answer.

   a 9.018l × 24 =   a 216l

   b 6.72m × 18 =   b 126m

9 Walking at a speed of 6km/h,
   how long will it take to walk from

   a Sten to Coty   a $\frac{3}{4}$h

   b Tinley to Coty?   b 2$\frac{1}{4}$h
                                              (or 2h 15min)

   Tinley 7.25km   1.75km   Coty
                   Sten 4.5km
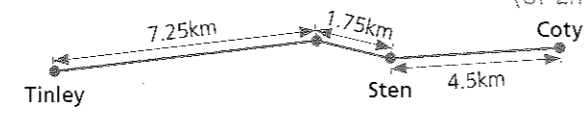
10 The area of a circle is 78.5cm².
    Find the area of the semicircle.   39.25cm²

11 What speed in kilometres per hour is the
    same as 26$\frac{1}{2}$km in 15min?   106km/h

12 | | | Find the |
    |---|---|---|
    | Ibrahim | 11 years 6 months | average |
    | Alfie | 12 years 4 months | age of the |
    | Leah | 10 years 2 months | children. 11yr 4mth |

Mental Arithmetic 5 Answers

A | Answer

1 24 + 17 + 46 =   87

2 725g × 8 = ▓ kg   5.8kg

3 77p × 7 = £   £5.39

4 $\frac{9}{12}$ ÷ 3 = $\frac{1}{4}$

5 5% of 1.2kg = ▓ g   60g

6 0.054m = ▓ cm   5.4cm

7 £10.00 − (£3.79 + £2.81) =   £3.40

8 75ml × 1000 = ▓ l   75l

9 8 × £y = £10.16. Find the value in £s of y. £1.27

10 0.01 × 0.1 =   0.001

11   2 . 8 8   25.92
    9)

12 4 tonnes cost £10. Find the cost of 3t.   £7.50

B | Answer

1 Write as a percentage 8.5p from £1.   8.5%

2 What do you multiply 0.5 by to give 6.0?   12

3 Add sixty thousand to a quarter of a million. 310000

4 Which of the following are prime numbers?

   | 17 | 27 | 37 | 47 | 57 | 17, 37, 47

5 Which of the following numbers are
   composite (not prime) numbers?

   | 51 | 52 | 53 | 54 | 51, 52, 54

6 Diagonals are drawn in a square with sides
   of 6cm to create four triangles. Find the
   area of one of these triangles.   9cm²

7 Express as a ratio

   a 60p to £1.80   a 1:3

   b 1mm to 4.5m.   b 1:4500

8 One jam tart costs 12p. Find the cost
   of 200.   £24.00

9 How many 750ml bottles can be filled
   from 3l?   4

10 Write 875g of 1kg as

    a a decimal fraction   a 0.875

    b a fraction in its simplest form.   b $\frac{7}{8}$

11 Express 50 ÷ 9

    a as a mixed number   a 5$\frac{5}{9}$

    b as a decimal correct to two places.   b 5.56

12 How much greater is the total of £2.45
    and £3.55 than £18 divided by 4?   £1.50

C | Answer

1 Which of the measurements is nearest
   to $\frac{1}{2}$m?

   | 475mm 43cm 0.575m 0.6m | 475mm

2 Henry missed the 08:44 train by 7min.
   How long did he have to wait for the
   next train at 10:17?   1h   26min

3 By how many metres is 820m less than
   1.25km?   430m

4   The lines AB
                                              and CD are
                                              parallel. Find
                                              in degrees
                                              ∠ x and ∠ y. ∠ x   126°
                                                            ∠ y   54°

5 The estimated population of Mexico City
   is 18850000. Write the population

   a in millions as a decimal   a 18.85 million

   b to the nearest 100000.   b 18900000

6 56 × 27 = 1512. Find a 28 × 27   a 756
                        b 27) 15.12   b 0.56

7 π is approximately 3$\frac{1}{7}$. Write 3$\frac{1}{7}$ as

   a an improper fraction   a $\frac{22}{7}$

   b a decimal correct to two places.   b 3.14

8 By how much is the product of $\frac{2}{3}$ and
   6 less than the sum of $\frac{2}{3}$ and 6?   2$\frac{2}{3}$

9 One adult ticket and three half-price
   tickets cost £10. Find the cost of one
   adult ticket.   £4.00

10 The perimeter of the rhombus is 80mm.
    What is the area in mm² of the
    shaded triangle?   100mm²

11 The scale of a plan is 1:250. What is the
    actual length in metres represented by a
    line on the plan which measures 40mm?   10m

12 These are the results of a cycling test.
    Write each school's number of passes
    as a percentage of the number of children.

    Barsby   92%

    Clinton   82.5%

    St. Peter's   90%

school	Barsby	Clinton	St. Peter's
number of children	100	200	300
number of passes	92	165	270