Functional Skills

Level 2

**Fractions**

**1** A shop deals in pet fish.

 The profit made at the end of the year from buying and selling the fish is £1200.

 The owner spends £700 of this on new equipment.

 A quarter of the remaining profit is spent on repairs.

 How much **in total** does he spend on new equipment and repairs?

**A** £625

**B** £800

**C** £825

**D** £875

**2** A distribution company keeps a record of how its deliveries are made.

 70% of the deliveries from the firm are by rail and the rest are by road.

 What fraction of the journeys are by road?

 **A **

 **B **

 **C **

 **D **

**3** About  of visitors to Warwick castle are under 12 years of age.

 The total number of visitors to the castle in 2003 is estimated at 1.4 million.

 Approximately how many of the estimated number of visitors in 2003 are likely to be under 12 years of age?

**A** 280

**B** 2 800

**C** 28 000

**D** 280 000

**4** A charity is hoping to raise £20 000 for a special appeal. They display a poster showing the amount raised so far.

**£20 000**

£0

**Target**

**Money raised so far**

**Help us raise £20 000**

 Which is the closest estimate of the fraction of the money they have raised towards their target so far?

**A **

**B **

**C **

**D** ****

**5** Another week the worker has this payslip.

Gross pay before deductions £275.15

Deductions £ 38.55

**Net pay after deductions £236.60**

 The worker estimates the deductions as a fraction of his gross pay.

 Which of these fractions is the closest estimate?

**A **

**B **

**C **

**D** ****

**6** During the holiday the friends cycle 90 miles and walk 29 miles.

 They estimate the distance they walk as a fraction of the **total** distance they travel.

 Which is the closest to this fraction?

**A **

**B **

**C **

**D **

**7** A footballdecides to refurbish part of the ground.

 The club’s ground capacity is 50 000 people.

 The club replaces a standing area that holds 15 000 people with a seating area that holds 10 000 people.

 What fraction of the ground capacity does the club lose?

**A **

**B **

**C **

**D **

**8** The number of videos borrowed in June is about of the total number of items borrowed.

 Which decimal fraction is the same as?

 **A** 0.02

 **B** 0.05

 **C** 0.20

 **D** 0.50

**9** A factory uses new and old machines to make iron garden tables. A bolt on one of the older machines has to be replaced.

 It is inches long.

 1 inch is approximately 25 millimetres.

 What is inches in millimetres, to the nearest millimetre?

 **A** 9mm

 **B** 11mm

 **C** 51mm

 **D** 69mm

**10** In a survey about recycling, 7 out of 20 people said there are enough local recycling facilities.

 What is  as a percentage?

**A** 7%

**B** 13%

**C** 14%

**D** 35%

**11** Of a class of 16 people, 12 have applied to go to university. What is  as a percentage?

**A** 12%

**B** 12.16%

**C** 75%

**D** 80%

**12** In one class of 20 learners, group A, four fifths  of them have successfully completed their Key Skills portfolios. In a second class of 24 learners, group B, five eighths  of them have successfully completed Key Skills portfolios.

 Which group has completed the most portfolios, and by how many?

 **A** Group A by 1 portfolio

 **B**  Group A by 2 portfolios

 **C**  Group B by 1 portfolio

 **D** Group B by 2 portfolios