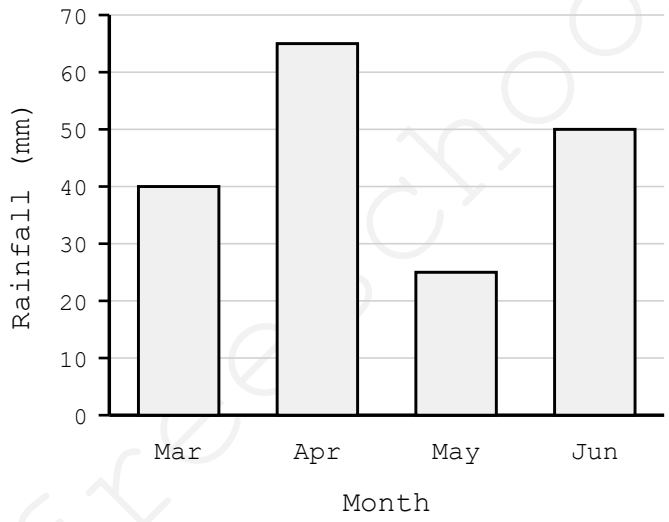
Problem Solving & Word Problems: Medium Practice Paper 8

Q1. A school trip costs £280 for the coach, plus an entry fee of £6.50 for each pupil. 40 pupils go, and the cost is shared equally. How much does each pupil pay?

A. £13.00 *B.* £12.50 *C.* £13.50 *D.* £14.00 *E.* £7.00

Q2. The bar chart shows the rainfall in four months. How much more rain fell in the wettest month than in the driest?



A. 40 mm *B.* 25 mm *C.* 65 mm *D.* 15 mm *E.* 90 mm

Q3. A box of 6 eggs costs 90p. At the same price for each egg, how much do 15 eggs cost?

A. £2.25 *B.* £1.35 *C.* £2.70 *D.* £2.10 *E.* £1.50

Q4. Tom is thinking of a two-digit number. It is greater than 50, it is a multiple of 9, and its two digits differ by 3. What is his number?

A. 72 *B.* 81 *C.* 63 *D.* 99 *E.* 54

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Q5. The two-way table shows how the pupils in a class travel to school. How many girls cycle?

	Boys	Girls	Total
Walk	12	15	27
Cycle	8	?	18
Total	20	25	45

A. 7 *B.* 15 *C.* 13 *D.* 10 *E.* 12

Q6. A film starts at 18:50 and ends at 21:05. How long is the film?

A. 2 hours 45 minutes

B. 3 hours 15 minutes

C. 2 hours 15 minutes

D. 2 hours 5 minutes

E. 1 hour 45 minutes

Q7. Mia is paid £6.40 an hour. She works 5 hours on Saturday and 3 hours on Sunday, then saves a quarter of her pay. How much does she save?

A. £10.24 *B.* £12.80 *C.* £38.40 *D.* £12.40 *E.* £16.00

Q8. A car uses 6 litres of fuel for every 100 km travelled. How much fuel does it use on a 250 km journey?

A. 24 litres *B.* 12 litres *C.* 18 litres *D.* 15 litres *E.* 10 litres

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Q9. Rice is sold as a 500 g bag for £2.20 or an 800 g bag for £3.60. Which bag is better value?

A. The 800 g bag

B. The 500 g bag

C. They are the same value

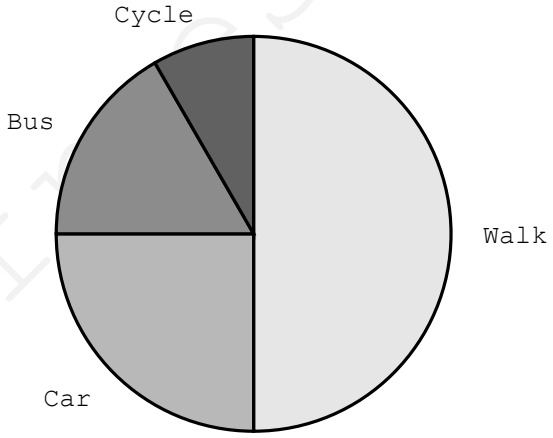
D. The 800 g bag, by 10p per 100 g

E. It cannot be worked out

Q10. Three consecutive odd numbers add up to 51. What is the smallest of the three?

A. 16 *B.* 17 *C.* 13 *D.* 19 *E.* 15

Q11. The pie chart shows how 60 pupils travel to school. Half of them walk and a quarter come by car. How many pupils come by car?



A. 12 *B.* 30 *C.* 10 *D.* 20 *E.* 15

Q12. A jacket costs £45 before VAT. VAT of 20% is then added. What is the price with VAT included?

A. £65 *B.* £54 *C.* £47 *D.* £56 *E.* £50

Q13. A bottle holds 1.5 litres of juice, and each glass holds 180 ml. How many full glasses can be poured, and how much juice is left?

A. 8 glasses, 60 ml left

B. 8 glasses, 6 ml left

C. 9 glasses, 60 ml left

D. 7 glasses, 240 ml left

E. 8 glasses, none left

Q14. A recipe for 6 people uses 450 g of mince. How much mince is needed for 10 people?

A. 900 g *B.* 700 g *C.* 800 g *D.* 675 g *E.* 750 g

Q15. A water butt starts with 300 litres and loses 12 litres a day. It must be refilled before it falls below 60 litres. After how many days must it be refilled?

A. 24 *B.* 25 *C.* 18 *D.* 20 *E.* 15

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