

Percentages of Amounts

Practise the Skill

Calculate the following percentages:

- (a) 10% of 60 (b) 20% of 40 (c) 40% of 90 (d) 60% of 150 (e) 5% of 80 (f) 15% of 60 (g) 15% of 180 (h) 35% of 80
(i) 45% of 600 (j) 65% of 460 (k) 1% of 400 (l) 1% of 350 (m) 2% of 80 (n) 7% of 420 (n) 12% of 260 (o) 26% of 180

Reason Mathematically

(1) Work out the percentages that have been found:

- (a) ?% of 60 = 6 (b) ?% of 80 = 16 (c) ?% of 40 = 2 (d) ?% of 90 = 27 (e) ?% of 20 = 12 (f) ?% of 80 = 32 (g) ?% of 140 = 126

(2) Work out the original number:

- (a) 40% of ? = 24 (b) 30% of ? = 24 (c) 5% of ? = 8 (d) 70% of ? = 28 (e) 1% of ? = 9 (f) 15% of ? = 6 (g) 35% of ? = 28

Solve Problems

- (1) Jack says that 45% of 340 is larger than 35% of 380. Decide if he is correct.
- (2) In a class of 30 pupils, 90% are right handed. How many pupils are left-handed?
- (3) Alfie has just got the results of his maths test. He scored 42 marks which is 70%. How many marks are on the test?
- (4) 60% of a rectangular garden measuring $3m$ by $6m$ is covered by snow. What area of the garden is not covered by snow?
- (5) A villa costs £3000 to rent for two weeks. Amy puts a 10% deposit down on the villa and then pays the remaining balance in equal instalments over 9 months. How much is each monthly instalment?

PERCENTAGES OF AMOUNTS - ANSWERS

Practise the Skill

Calculate the following percentages:

(a) 6 (b) 8 (c) 36 (d) 90 (e) 4 (f) 9 (g) 27 (h) 28

(i) 270 (j) 299 (k) 4 (l) 3.5 (m) 1.6 (n) 29.4 (n) 31.2 (o) 46.8

Reason Mathematically

(1) Work out the percentages that have been found:

(a) 10% of 60 = 6 (b) 20% of 80 = 16 (c) 5% of 40 = 2 (d) 30% of 90 = 27 (e) 60% of 20 = 12 (f) 40% of 80 = 32 (g) 90% of 140 = 126

(2) Work out the original number:

(a) 40% of 60 = 24 (b) 30% of 80 = 24 (c) 5% of 160 = 8 (d) 70% of 40 = 28 (e) 1% of 900 = 9 (f) 15% of 40 = 6 (g) 35% of 80 = 28

Solve Problems

(1) Jack says that 45% of 340 is larger than 35% of 380. Decide if he is correct. **Yes. 45% of 340 = 153, 35% of 380 = 133**

(2) In a class of 30 pupils, 90% are right handed. How many pupils are left-handed? **3**

(3) Alfie has just got the results of his maths test. He scored 42 marks which is 70%. How many marks are on the test? **60 marks**

(4) 60% of a rectangular garden measuring 3m by 6m is covered by snow. What area of the garden is not covered by snow? **7.2m²**

(5) A villa costs £3000 to rent for two weeks. Amy puts a 10% deposit down on the villa and then pays the remaining balance in equal instalments over 9 months. How much is each monthly instalment? **£300**