FOUNDATION & HIGHER

SAME AT BOTH TIERS

Name ..... Class .....

R9: Percentages

Percentage change, reverse percentages, simple interest and comparing with percentages

20 marks · 25 minutes · Calculator allowed

1) Write 35% as

(a) a fraction in its simplest form

.....

(1)

(b) a decimal

.....

(1)

[Question 1: 2 marks]

2) Write 27 out of 60 as a percentage.

..... %

[Question 2: 1 marks]

3) Increase £850 by 6%

£.....

[Question 3: 2 marks]

4) Decrease 64 kg by 12.5%

..... kg

[Question 4: 2 marks]

---

5) The price of a ticket rises from £24 to £30. Find the percentage increase.

..... %

[Question 5: 2 marks]

---

6) After a 15% discount, a jacket costs £68. What was the price before the discount?

£ .....

[Question 6: 2 marks]

---

7) Find the simple interest on £2000 at 3% per year for 4 years.

£ .....

[Question 7: 2 marks]

---

8) A town has 2500 people. Its population increases by 140%. Find the new population.

.....

[Question 8: 2 marks]

9) Write 1.8 as a percentage of 1.2

..... %

[Question 9: 1 marks]

10) Mia scored 34 out of 40 in Test A and 41 out of 50 in Test B. In which test did she do better? Use percentages.

.....

[Question 10: 2 marks]

11) The value of a van falls from £12 000 to £9600. Find the percentage decrease.

..... %

[Question 11: 2 marks]

End of paper – 20 marks in total

Answers and brief mark scheme

Q	Answer	Method / notes
1	(a) $\frac{7}{20}$ (b) 0.35	B1 each.
2	45%	B1.
3	£901	850×1.06 (M1); A1.
4	56	64×0.875 (M1); A1.
5	25%	$\frac{6}{24} \times 100$ (M1); A1.
6	£80	$68 \div 0.85$ (M1); A1.
7	£240	$2000 \times 0.03 \times 4$ (M1); A1.
8	6000	2500×2.4 (M1); A1.
9	150%	B1.
10	Test A	85% and 82% (M1); A (A1).
11	20%	$\frac{2400}{12\,000} \times 100$ (M1); A1.