Percentages: Discounts, VAT, Profit and Loss

MEMORANDUM

Name: ..... Class: .....

Date: .....

MARK ____ / 27

Answer all questions. Show all your working — marks are awarded for method as well as the final answer. **Teacher copy: accept any correct equivalent method.**

1 Find 25% of R320 *(percentage of)* (2)

$0{,}25 \times 320 = \mathbf{R80}$ ✓✓ (2)

2 Find 12% of 150 *(percentage of)* (2)

$0{,}12 \times 150 = \mathbf{18}$ ✓✓ (2)

3 Increase R2 000 by 30% *(increase)* (2)

$2000 \times 1{,}30 = \mathbf{R2\,600}$ ✓✓ (2)

4 Increase R450 by 8% *(increase)* (2)

$450 \times 1{,}08 = \mathbf{R486}$ ✓✓ (2)

5 Decrease R250 by 20% *(decrease)* (2)

$250 \times 0{,}80 = \mathbf{R200}$ ✓✓ (2)

6 A R900 item at 15% off *(discount)* (2)

$900 \times 0{,}85 = \mathbf{R765}$ ✓✓ (2)

7 What percentage is 18 out of 24? *(as a %)* (2)

$\frac{18}{24} \times 100 = \mathbf{75\%}$ ✓✓ (2)

8 What percentage is 30 out of 40? *(as a %)* (2)

$\frac{30}{40} \times 100 = \mathbf{75\%}$ ✓✓ (2)

9 Bought for R80, sold for R100. Profit %? *(profit)* **(3)**

> $\frac{20}{80} \times 100 = \mathbf{25\%}$ ✓✓✓ (3)

10 Bought for R200, sold for R150. Loss %? *(loss)* **(3)**

> $\frac{50}{200} \times 100 = \mathbf{25\%\ loss}$ ✓✓✓ (3)

11 Add 15% VAT to R240 *(VAT)* **(2)**

> $240 \times 1{,}15 = \mathbf{R276}$ ✓✓ (2)

12 A price is R575 including 15% VAT. Price before VAT? *(reverse)* **(3)**

> $575 \div 1{,}15 = \mathbf{R500}$ ✓✓✓ (3)

TOTAL: 27 marks

© Danemathics — free to print and share for classroom use.