

1

Method 1

$$\begin{aligned} 1. \quad & 10(4 + 5) \\ & 40 + 50 \\ & 90 \end{aligned}$$

$$\begin{aligned} 2. \quad & 12(5 - 2) \\ & 60 - 24 \\ & 36 \end{aligned}$$

$$\begin{aligned} 3. \quad & 8(15 - 8) \\ & 120 - 64 \\ & 56 \end{aligned}$$

$$\begin{aligned} 4. \quad & 11(7 + 11) \\ & 77 + 121 \\ & 198 \end{aligned}$$

$$\begin{aligned} 5. \quad & 3(6 + 5) \\ & 18 + 15 \\ & 33 \end{aligned}$$

$$\begin{aligned} 6. \quad & 9(63 - 52) \\ & 567 - 468 \\ & 99 \end{aligned}$$

$$\begin{aligned} 7. \quad & 6(9 + 2) \\ & 54 + 12 \\ & 66 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3(50 - 25) \\ & 150 - 75 \\ & 75 \end{aligned}$$

$$\begin{aligned} 9. \quad & 8(24 - 12) \\ & 192 - 96 \\ & 96 \end{aligned}$$

OR

Method 2

$$\begin{aligned} 1. \quad & 10(4 + 5) \\ & 10(9) \\ & 90 \end{aligned}$$

$$\begin{aligned} 2. \quad & 12(5 - 2) \\ & 12(3) \\ & 36 \end{aligned}$$

$$\begin{aligned} 3. \quad & 8(15 - 8) \\ & 8(7) \\ & 56 \end{aligned}$$

$$\begin{aligned} 4. \quad & 11(7 + 11) \\ & 11(18) \\ & 198 \end{aligned}$$

$$\begin{aligned} 5. \quad & 3(6 + 5) \\ & 3(11) \\ & 33 \end{aligned}$$

$$\begin{aligned} 6. \quad & 9(63 - 52) \\ & 9(11) \\ & 99 \end{aligned}$$

$$\begin{aligned} 7. \quad & 6(9 + 2) \\ & 6(11) \\ & 66 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3(50 - 25) \\ & 3(25) \\ & 75 \end{aligned}$$

$$\begin{aligned} 9. \quad & 8(24 - 12) \\ & 8(12) \\ & 96 \end{aligned}$$

2

1. $28 = 2 \times 2 \times 7$
2. $63 = 3 \times 3 \times 7$
3. $56 = 2 \times 2 \times 2 \times 7$
4. $84 = 2 \times 2 \times 3 \times 7$
5. $132 = 2 \times 2 \times 3 \times 11$
6. $108 = 2 \times 2 \times 3 \times 3 \times 3$
7. $210 = 2 \times 3 \times 5 \times 7$
8. $378 = 2 \times 3 \times 3 \times 3 \times 7$
9. $2500 = 2 \times 2 \times 5 \times 5 \times 5 \times 5$

3 WORKED EXAMPLE**4**

1. 18 and 27 = (HCF = 9)
2. 13 and 52 = (HCF = 13)
3. 96 and 16 = (HCF = 16)
4. 68 and 23 = (HCF = 1)
5. 45; 75 and 135 = (HCF = 15)
6. 96; 36 and 144 = (HCF = 12)
7. 24; 68 and 224 = (HCF = 4)
8. 128; 184 and 144 = (HCF = 8)
9. 280; 126 and 266 = (HCF = 14)
10. 424; 318 and 530 = (HCF = 106)

5

1. $200m \div 25s = 8m/s$
2. $1200w \div 24h = 50w/h$

6

1. $2500m \div 50s = 50m/s$
2. $396 \text{ sweets} \div 4 \text{ friends} = 99 \text{ sweets/friend}$
3. $846 \text{ accidents} \div 47 \text{ days} = 18 \text{ accidents/day}$
4. $360 \text{ marks} \div 3h = 120 \text{ marks/hour}$
5. $R960 \div 80L = R12/L$
6. $730 \text{ ml} \div 365 \text{ days} = 2 \text{ ml/day}$

7 C

Distance = speed x time

8 Worked Example**9****A**

Divide by 10 000

10 C

11 Worked Example

12 B

13 Worked example

14

1. B
2. B

15

$$\begin{aligned}
 9. \text{ Total HP Price} &= \text{retail} + \text{interest} = 11\,500 + \frac{(P \times I \times n)}{100} \\
 &= 11\,500 + \frac{11\,500 \times 8 \times 1.5}{100} \\
 &= 11\,500 + 1\,380 \\
 &= 12\,880
 \end{aligned}$$

$$\begin{aligned}
 \text{Monthly instalment} &= \text{Total HP price} \div 18 \\
 &= 12\,880 \div 18 \\
 &= R715.56
 \end{aligned}$$

$$\begin{aligned}
 10. \text{ HP price} &= \text{retail price} - \text{deposit} \\
 &= 11\,500 - 2\,000 \\
 &= 9\,500
 \end{aligned}$$

$$\begin{aligned}
 \text{Total HP price} &= \text{retail price} + \text{interest} \\
 &= 9\,500 + \frac{(9\,500 \times 8 \times 1.5)}{100} \\
 &= 9\,500 + 1\,140 \\
 &= 10\,640
 \end{aligned}$$

$$\begin{aligned}
 \text{Monthly instalment} &= \text{total HP price} \div 18 \\
 &= 10\,640 \div 18 \\
 &= R591, 11
 \end{aligned}$$

16

2.1.1 0

2.1.2 8

2.2 1.2×10^4

2.3

2.3.1 48

2.3.2 1, 2, 4, 7 & 14

2.4 $Speed = \frac{Distance}{time} = \frac{720}{6} = 120km/h$ 2.5 -1; -4; -7; -10; -13; -16