

- 1.1 77 en 84 (1)
- 1.2 2 en 3 (1)
- 1.3 6 (1)
- 1.4 81 (1)
- 1.5 $2 \times 3 \times 11$ (1)
- 1.6 $2^2 \times 3^3$ (1) **[6]**
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- 2.1 4 (1)
- 2.2 441 (1)
- 2.3 6 (1)
- 2.4 11 (1) **[4]**
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- 3.1 D Gelykvormig (1)
- 3.2 F Stomphoekige driehoek (1)
- 3.3 E Gelykbenige driehoek (1)
- 3.4 A Kongruent (1) **[4]**
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- 4.1 $x = 360^\circ - 43^\circ \checkmark$
 $x = 317^\circ \checkmark$ (2)
- 4.2 $x = 180^\circ - 97^\circ \checkmark$
 $x = 83^\circ \checkmark$ (2)
- 4.3 $x = 180^\circ - (60^\circ + 50^\circ) \checkmark$
 $x = 70^\circ \checkmark$ (2) **[6]**
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5. Trek AB = 6 cm \checkmark
 Meet $\angle A = 60^\circ \checkmark$
 Trek AD = 4 cm \checkmark
 Trek DC met liniaal en driehoek \parallel AB \checkmark
 Meet DC = 3 cm \checkmark
 Verbind B en C om trapesium te voltooi \checkmark
 Teken \parallel simbole op AB en DC \checkmark (7) **[7]**
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- 6.1 60° (1)
- 6.2 60° (1)
- 6.3 $110 \text{ mm} - 65 \text{ mm} = 45 \text{ mm}$ (1)
- 6.4 90° (1)
- 6.5 Kongruent? (1) **[5]**
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- 7.1 $R725 \div 5 = a \checkmark$ $a = R145 \checkmark$ (koste van 1 bal)
 $\therefore R145 \times 8 = b$ $b = R1\ 160 \checkmark$ (koste van 8 balle) (3)
- 7.2 $5\frac{1}{4} + 3\frac{5}{6} = 8\frac{3}{12} + \frac{10}{12} \checkmark$
 $= 8\frac{13}{12} \checkmark$
 $= 9\frac{1}{12} \checkmark$ (3)

2.

$$\begin{aligned}
 7.3 \quad 3\frac{1}{4} - 1\frac{1}{2} \times 1\frac{1}{3} &= 3\frac{1}{4} - \frac{3}{2} \times \frac{4}{3} \quad \checkmark \\
 &= 3\frac{1}{4} - \frac{12}{6} \quad \checkmark \\
 &= 3\frac{3}{12} - \frac{24}{12} \quad \checkmark \quad \left(1\frac{27}{12} - \frac{24}{12}\right) \\
 &= 1\frac{3}{12} \quad \checkmark \quad (4)
 \end{aligned}$$

$$\begin{aligned}
 7.4.1 \quad \frac{4}{9} \text{ van } 27 \quad \checkmark &= \frac{4}{9} \times \frac{27}{1} \quad \checkmark \\
 &= 12 \text{ leerders in die klas oor } \quad \checkmark \quad (3)
 \end{aligned}$$

$$7.4.2 \quad \frac{5}{9} \times \frac{100}{1} \quad \checkmark = \frac{500}{9} \quad \checkmark = 55,5\dots\% \quad \checkmark \quad (3)$$

$$7.5 \quad \frac{108}{100} \times \frac{15000}{1} \quad \checkmark = \frac{108}{1} \times \frac{150}{1} \quad \checkmark = R16\,200 \quad \checkmark \quad (3)$$

$$7.6 \quad \frac{75}{100} \times \frac{675}{1} \quad \checkmark = \frac{3}{4} \times \frac{675}{1} \quad \checkmark = R506.25 \quad \checkmark \quad (3) \quad [22]$$

$$8.1 \quad x \times 6 = y \quad (1)$$

$$8.2 \quad 9 \times 6 = 54 \quad (1)$$

$$8.3 \quad n \times 6 \quad (1) \quad [3]$$

$$\begin{aligned}
 9.1 \quad \text{Oppervlakte van } \triangle AED &= \frac{1}{2} b \times h \quad \checkmark \\
 &= \frac{1}{2} \cdot 15 \times 40 \quad \checkmark \\
 &= 7,5 \times 40 \quad \checkmark \\
 &= 300 \text{ mm}^2 \quad \checkmark \quad (4)
 \end{aligned}$$

9.2 Bereken eers die lengte van AD.

$\triangle AED$ is 'n reghoekige driehoek met $\angle AED = 90^\circ$ \checkmark

$$\begin{aligned}
 \text{Ons kan dus aanvaar dat } AE^2 + DE^2 &= AD^2 \quad \checkmark \quad \therefore 40^2 + 30^2 = 1\,600 + 900 \\
 &= 2\,500 \quad \checkmark
 \end{aligned}$$

Die $\sqrt{2\,500} = 50$ \therefore is die lengte van $AD = 50 \text{ mm}$ \checkmark

Die omtrek van parallelogram ABCD kan nou bereken word.

$$\begin{aligned}
 \text{Die omtrek van parallelogram ABCD} &= (L + B) \times 2 \quad \checkmark \\
 &= (90 + 50) \times 2 \quad \checkmark \\
 &= 140 \times 2 \quad \checkmark \\
 &= 280 \text{ mm} \quad \checkmark \quad (7) \quad [11]
 \end{aligned}$$

10.1 Die prisma het 6 vlakke – 4 reghoekige vlakke en 2 vierkantige vlakke \checkmark
 Die reghoeke se mates is 12 cm by 6 cm en die vierkante is 6 cm by 6 cm. \checkmark

$$\begin{aligned}
 \text{Oppervlakte van reghoeke} &= (L \times B) \times 4 \quad \checkmark \\
 &= (12 \times 6) \times 4 \quad \checkmark \\
 &= 288 \text{ cm}^2 \quad \checkmark
 \end{aligned}$$

$$\begin{aligned}
 \text{Oppervlakte van vierkante} &= (S \times S) \times 2 \quad \checkmark \\
 &= (6 \times 6) \times 2 \quad \checkmark \\
 &= 72 \text{ cm}^2 \quad \checkmark
 \end{aligned}$$

$$\text{Totale buiteoppervlakte is } 288 + 72 = 360 \text{ cm}^2 \quad \checkmark \quad (9)$$

$$10.2 \quad \text{Volume van prisma} = L \times B \times H \quad \checkmark \quad 12 \times 6 \times 6 \quad \checkmark = 432 \text{ cm}^3 \quad \checkmark \quad (3) \quad [12]$$