

GEOMETRI åk9

FACIT – Grundnivå

REPETITION:

1. $A = 11,3 \approx 11 \text{ mm}^2$
 $O = 11,9 \approx 12 \text{ mm}$
2. $A = 481 \approx 480 \text{ mm}^2$
 $O = 89,9 \approx 90 \text{ mm}$
3. $A = 68 \text{ cm}^2$
4. $V = 27 \text{ cm}^3$
5. $V = 7 \cdot 4 \cdot 6 = 168 \text{ dm}^3$
6. $V = 1884 \text{ cm}^3$
7. $V = 1728 \text{ mm}^3$
8. $2,52 \text{ m}^2$
9. 72 m^2
10. 350 mm^2
11. $1,5 \text{ dm}^3$
12. 2000 dm^3
13. 7000 cm^3

ENHETSOMVANDLINGSPROBLEM:

1. 245 cm
2. $182,9 \text{ dm}$
3. 1520 mm
4. 25200 cm^2
5. 6300 dm^2
6. 682500 dm^2
7. 8000 cm^3
8. 29000 mm^3

LIKFORMIGHET:

1. $D = 50^\circ$ $F = 40^\circ$
2. ex) koll: $\frac{4,0}{10} = \frac{6,0}{15} = 0,4$ (LIKFORMIG)
 $\frac{A}{4} = \frac{12}{8} \Rightarrow A = 6 \text{ cm}$
3. ex) koll: $\frac{B}{9} = \frac{8}{12} \Rightarrow B = 6 \text{ cm}$
4. A & C
5. a) $x = 30 \text{ cm}$ b) $y = 18 \text{ cm}$

BLANDADE VOLYMPROBLEM!:

1. $367,38 \text{ cm}^3 = 0,367 \text{ dm}^3 = 0,367 \text{ liter} \approx 37 \text{ cl}$
2. $24 \text{ dm}^3 = 24 \text{ liter}$
3. $1875 \text{ dm}^2 \approx 1900 \text{ liter}$
4. 125 cm^3
5. a) 6 dm^2 b) 42 dm^3
6. 113 dm^3
7. 254340 cm^3 (= $254,34 \text{ dm}^3$ eller liter)
8. ca 1000 hinkar (1005st)
9. 72 liter

SKALA 1:

1. 2:1 3:1 5:2 100:1
2. $4300000 \text{ cm} = 43000 \text{ m} = 43 \text{ m} = 4,3 \text{ mil}$
3. $\frac{68}{14} = 4,85... \approx 4,9 \text{ mm}$
4. a) $4,6 \text{ m}$ b) $16,2 \text{ m}$
(köp 17 m)
5. 1:25
6. 4:1

VINKLAR:

1. 45°
2. $x = 40^\circ$ och $y = 140^\circ$
3. $x = 131^\circ$ och $y = 49^\circ$
4. $x = 180^\circ$
5. $x = 84^\circ$
6. $b = 19^\circ$
7. $u = 34^\circ$
8. 360°
9. $u = 57^\circ$
10. $u = 118^\circ$

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PYTHAGORAS SATS:

1. a) 100 b) 36 c) 64

2. $c^2 = a^2 + b^2$
 $c^2 = 12^2 + 16^2$
 $c = 20 \text{ mm}$

3. $c = 5 \text{ cm}$

4. $c = \sqrt{45} = 6,7 \text{ cm}$

5. $b = \sqrt{55} = 7,4 \text{ cm}$