

Level 4/Boemo ba 4

For office use only														
A1	Individual questionnaire number							A2	Household questionnaire number					
A3	Household control sheet number							A4	Pcode from household roster					

- $2^6 * 2^{-3} =$
 - 2^{-18}
 - 2^{-2}
 - 2^3
 - 2^9
- $$\frac{1 + \frac{1}{2}}{1 - \frac{1}{2}} \cdot \frac{1 - \frac{1}{2}}{1 + \frac{1}{2}} = ?$$
 - 1
 - 0
 - 1
 - $\frac{8}{3}$
- 125% of 160 is? / 125 % ya 160 ke?
 - 140
 - 160
 - 180
 - 200
- Find x if $\frac{x}{x-2} = 2$ / Fumana x haeba $\frac{x}{x-2} = 2$
 - $x = 0$
 - $x = 2$
 - $x = 4$
 - $x = 6$

5. Simplify $\frac{x^2}{x-y} - \frac{y^2}{x-y} =$ / Bebofatsa $\frac{x^2}{x-y} - \frac{y^2}{x-y} =$

a) $\frac{1}{x+y}$

b) $\frac{1}{x-y}$

c) $x+y$

d) $x-y$

6. Find the next number in the sequence! / Fumana palo e latelang letotong!

1 2 3 5 7 11 2

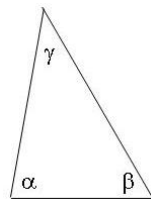
a) 12

b) 13

c) 15

d) 17

7.



If $\alpha = 80$ and $\beta : \gamma = 3 : 2$ / Haeba $\alpha = 80$ mme $\beta : \gamma = 3 : 2$

a) $\beta = 40$

b) $\beta = 60$

c) $\beta = 80$

d) $\beta = 100$

8. Convert 2 and $\frac{3}{4}$ days into hours / Fetolela matsatsi a 2 le $\frac{3}{4}$ ho dihora

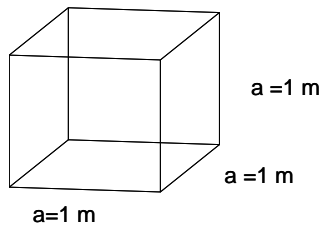
a) 48

b) 60

c) 66

d) 72

9.



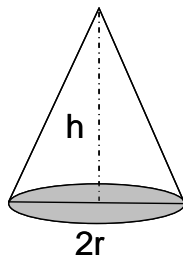
How much liquid can this box hold? / Lebokoso lena le ka tshela metsi a makakaang?

- a) 1 l
- b) 10 l
- c) 100 l
- d) 1000 l

10. If volume of the cube is 8 cm^3 surface what is its surface? / Ha volumu ya bokahodimo ba khiubu e le 8 cm^3 bokahodimo ba yona ke eng?

- a) 4 cm^2
- b) 6 cm^2
- c) 12 cm^2
- d) 24 cm^2

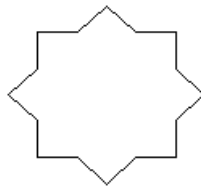
11. If $h=3\text{cm}$ and $2r=2\text{cm}$ / Ha $h=3\text{cm}$ mme $2r=2\text{cm}$



What is the volume of this cone? / Volumu ya khounu ena ke eng?

- a) $\pi \text{ cm}^3$
- b) $2 \pi \text{ cm}^3$
- c) $3 \pi \text{ cm}^3$
- d) $4 \pi \text{ cm}^3$

12. How many axes of symmetry does this shape have? / Sebopeho sena se na le mela e mekae e tshwanang?



- a) 2
- b) 4
- c) 8
- d) 10

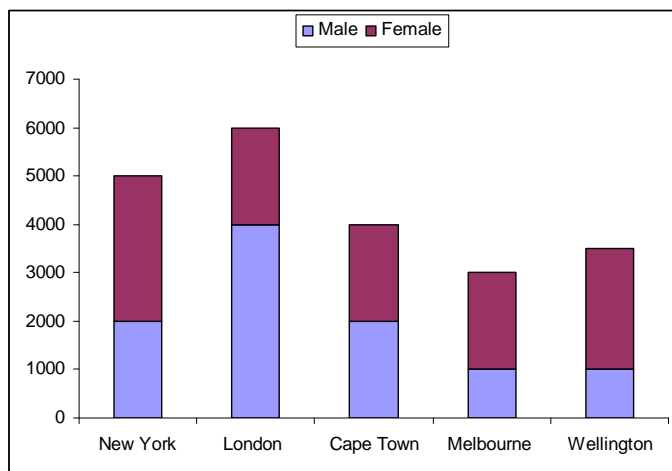
13. What is the median of these numbers: / Palohare ya dinomoro tsena ke eng:
2, 6, 10, 22, 30

- a) 10
- b) 12
- c) 14
- d) 16

14. Mark flips a coin 10 times. What is the probability that he obtains heads on his third attempt? / Mark o bapadisa tjhelete ya tshepe makgetlo a leshome?. Kgonahalo ya hore a fumane hlooho tekong ya hae ya boraro ke efe?

- a) $\frac{3}{80}$
- b) $\frac{3}{20}$
- c) $\frac{1}{8}$
- d) $\frac{1}{2}$

15. The graph below shows the number of male and female participants in an online survey. Which city has the highest percentage of female participants? / Kerafo e ka tlase e bontsha palo ya bankakarolo ba batona le ba batshehadi phuputsong ya mola wa theknoloji. Ke motsetoropo ofe o nang le persente e phahameng ho feta ya bankakarolo ba batshehadi?



- a) New York
- b) Cape Town
- c) Melbourne
- d) Wellington