

# Level 4

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

1.  $2^6 * 2^{-3} =$

- a)  $2^{-18}$
- b)  $2^{-2}$
- c)  $2^3$
- d)  $2^9$

2.  $\frac{1 + \frac{1}{2}}{1 - \frac{1}{2}} \frac{1 - \frac{1}{2}}{1 + \frac{1}{2}} = ?$

- a) -1
- b) 0
- c) 1
- d)  $\frac{8}{3}$

3. 125 % of 160 is? / Amaphesente ali-125 waka-160 ngu?

- a) 140
- b) 160
- c) 180
- d) 200

4. Find  $x$  if  $\frac{x}{x-2} = 2$  / Fumana u- $x$  nayikuthi  $\frac{x}{x-2} = 2$

- a)  $x = 0$
- b)  $x = 2$
- c)  $x = 4$
- d)  $x = 6$

5. Simplify  $\frac{x^2}{x-y} - \frac{y^2}{x-y} =$  Yenza lula

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 inomboro elandelako ekulandelaneni!

1 2 3 5 7 11 ?

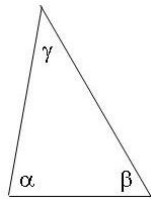
a) 12

b) 13

c) 15

d) 17

7.



If  $\alpha = 80$  and  $\beta : \gamma = 3 : 2$  / Nayikuthi u- $\alpha = 80$  begodu u- $\beta : \gamma = 3 : 2$

a)  $\beta = 40$

b)  $\beta = 60$

c)  $\beta = 80$

d)  $\beta = 100$

8. Convert 2 and  $\frac{3}{4}$  days into hours / Tjhugulula amalanga ama-2 ne- $\frac{3}{4}$  abe ma-awara

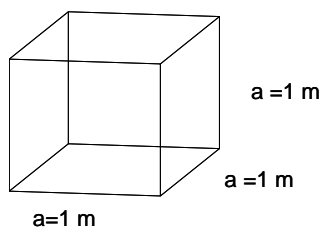
a) 48

b) 60

c) 66

d) 72

9.



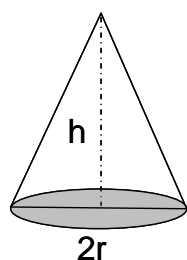
How much liquid can this box hold? / Ingabe ibhokisi leli lingathwala okusamanzi okungangani?

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

10. If volume of the cube is  $8 \text{ cm}^3$  what is its surface? / Nayikuthi umthamo wekhyubhu yi- $8 \text{ cm}^3$  liyini iphasi layo?

- a)  $4 \text{ cm}^2$
- b)  $6 \text{ cm}^2$
- c)  $12 \text{ cm}^2$
- d)  $24 \text{ cm}^2$

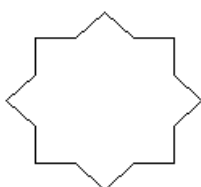
11. If  $h=3\text{cm}$  and  $2r=2\text{cm}$  / Nayikuthi u- $h=3\text{cm}$  begodu u- $2r=2\text{cm}$



What is the volume of this cone? Khuyini umthamo walekhoni?

- 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? Mangaki ama-eksisi wesimethri isibumbeko lesi esinawo?



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

13. What is the median of these numbers : / Khuyini i-mean yeenomboro lezi:

2, 6, 10, 22, 30

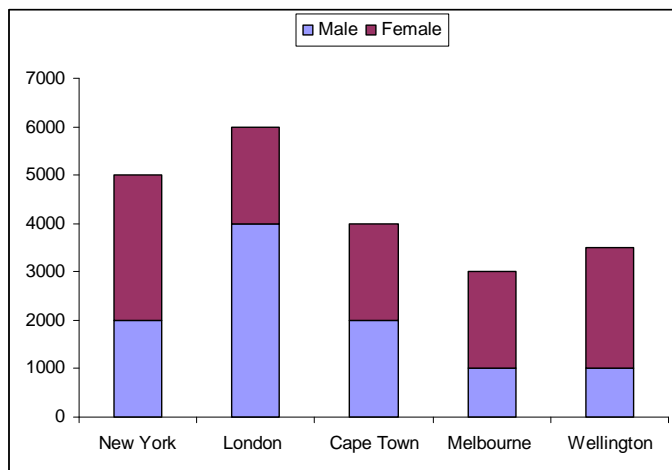
- a) 10
- b) 12
- c) 14
- d) 16

14. Mark flips a coin 10 times. What is the probability that he obtains heads on his third attempt? / U-Mark utjhugulula emmoyeni imali yesimbi ngokuyiphenduphendula kalitjhum. Khuyini ikghonakalo yakhe yokufumana iinhloko emzameni wakhe wesithathu?

15.

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

16. The graph below shows the number of male and female participants in an online survey. Which city has the highest percentage of female participants? / Igrafu engenzasi itjengisa isibalo sabahlanganyeli abaduna nebengubo ephenyweni elenziwa nge-inthanethi. Ngiliphi idorobha elinesibalo esiphezulu samaphesente sabahlanganyeli bengubo?



Male – Abaduna

Female – Bengubo

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