

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

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

3. 125 % of 160 is?

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

4. Find x if $\frac{x}{x-2} = 2$

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

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

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

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

c) $x+y$

d) $x-y$

6. Find the next number in the sequence !

1 2 3 5 7 11 ?

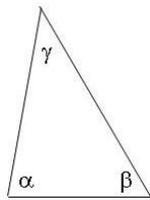
a) 12

b) 13

c) 15

d) 17

7.



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

a) $\beta = 40$

b) $\beta = 60$

c) $\beta = 80$

d) $\beta = 100$

8. Convert 2 and $\frac{3}{4}$ days into hours

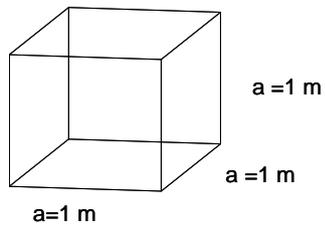
a) 48

b) 60

c) 66

d) 72

9.



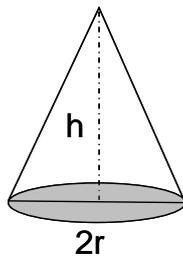
How much liquid can this box hold?

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

10. If volume of the cube is 8 cm^3 what is its surface?

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

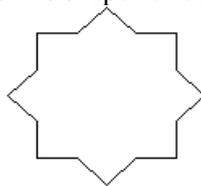
11. If $h=3\text{cm}$ and $2r=2\text{cm}$



What is the volume of this cone?

- 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?



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

13. What is the median of these numbers :

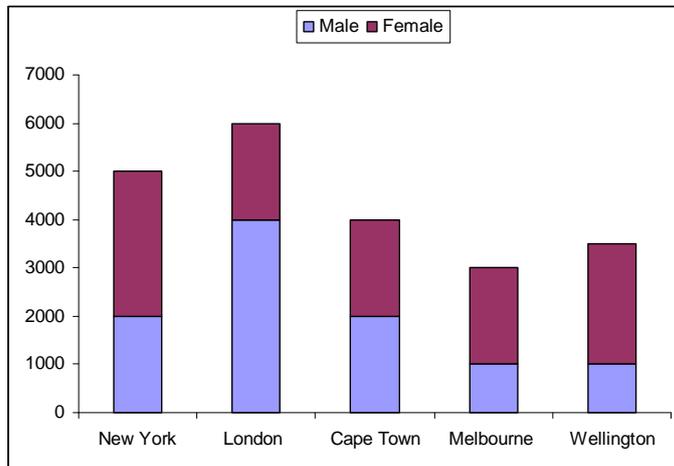
2, 6, 10, 22, 30

- 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?

- 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?



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