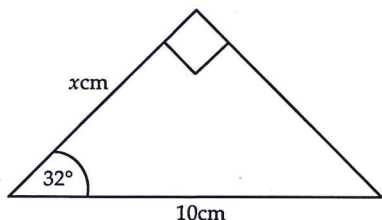


## Quick Revision Sheet 11

1. Change 2km into metres E \_\_\_\_\_
2. If  $A = \{1, 3, 5, 7\}$  and  $B = \{8, 9\}$ , what is  $A \cap B$ ? C \_\_\_\_\_
3. Solve the equations  $5x - 3y = 4$  and  $3x + 3y = 12$  C \_\_\_\_\_
4. Calculate the length of the side marked  $x$  giving Your answer to 1 d.p. What is the size of the missing angle? C \_\_\_\_\_



5. Simplify (i)  $a^3 \times a^2$  (ii)  $a^7 \div a^4$  (iii)  $(a^2)^3$  C \_\_\_\_\_
6. Factorise  $3a + 12$  D \_\_\_\_\_
7. What is the external angle of a regular decagon? D \_\_\_\_\_
8. The four angles of a quadrilateral are  $20^\circ$ ,  $110^\circ$ ,  $p^\circ$  and  $60^\circ$ . Find  $p$ . C \_\_\_\_\_
9. The bearing of  $A$  from  $B$  is  $270^\circ$ . Draw a simple sketch showing this information. D \_\_\_\_\_
10. On the line construct, using a pair of compasses, the perpendicular bisector of this line C \_\_\_\_\_

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11. Solve the equation  $6 - 4x = 10$  C \_\_\_\_\_
12. A rectangle is 5cm long and 3cm wide correct to the nearest centimetre. Using the upper bounds for each measurement, find an upper bound for the perimeter. E \_\_\_\_\_

13. A prism has a cross sectional area of  $10\text{cm}^2$ .  
It is  $20\text{cm}$  long. Find the volume.

D \_\_\_\_\_

14.  $t = ac^2 - d^3$ . Calculate the value of  $t$  when  $a = 2$ ,  
 $c = 5$  and  $d = 1$ .

C \_\_\_\_\_

15. Multiply out the brackets:  $5x(x + 1)$

C \_\_\_\_\_

16. What is the average of 6, 8 and 13?

E \_\_\_\_\_

17.

| Score | Frequency |
|-------|-----------|
| 6     | 4         |
| 7     | 8         |
| 8     | 2         |
| 9     | 1         |

The table shown above gives the marks out of ten for 15 pupils in class Z. Work out the mean score.  
What is the modal score?

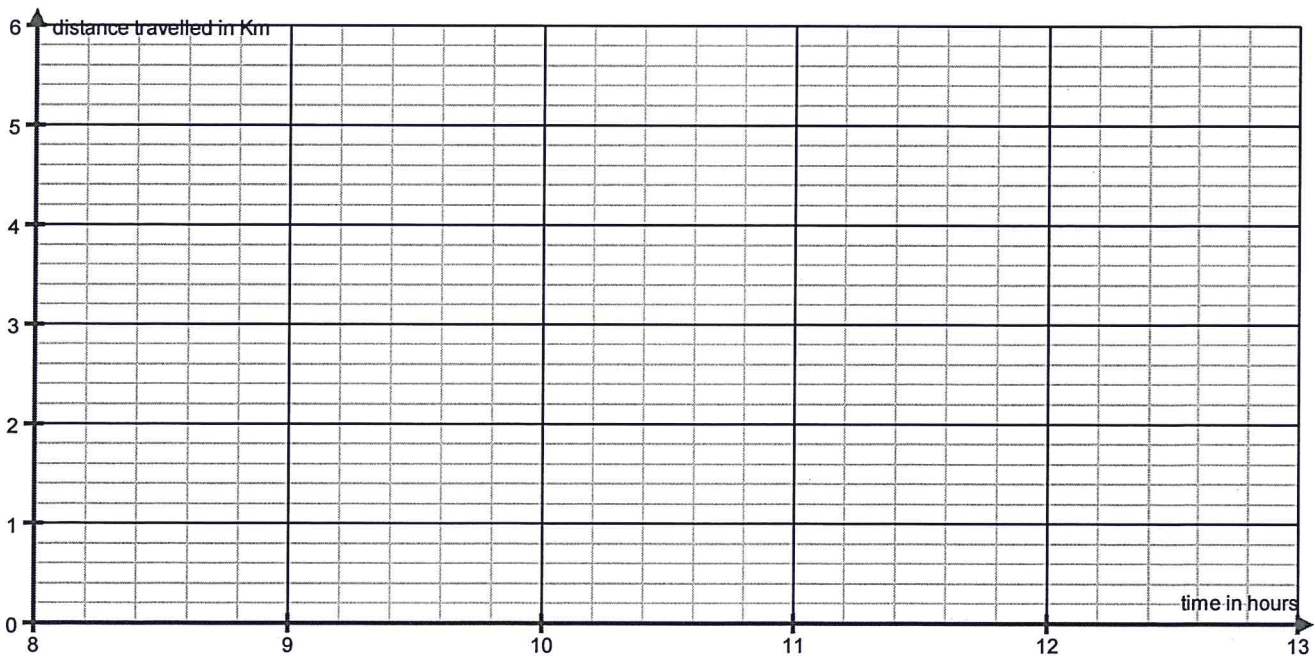
C \_\_\_\_\_

18. What was the modal score in question 17?

D \_\_\_\_\_

19. Abeda walks to her friend Amy's house  $5\text{km}$  away, leaving home at  $8\text{am}$  and arriving at  $10\text{am}$ . She stays at her friend's house for two hours, and then leaves, travelling back to her home by bicycle arriving at  $12.30\text{pm}$ .

- (i) Draw a travel graph to illustrate this information
- (ii) How far did Abeda travel in total?
- (iii) What was her average speed on the journey home by bicycle?



C \_\_\_\_\_

20. Two coins are tossed. List the possible outcomes.

E \_\_\_\_\_