

Quick Revision Sheet 9

1. A biased spinner has three colours, red, blue and black. The probability of it landing red is 0.5. The probability of it landing black is 0.3. What is the probability of it landing blue? D _____

2. Multiply out the brackets and simplify $7(x+1)-6$ D _____

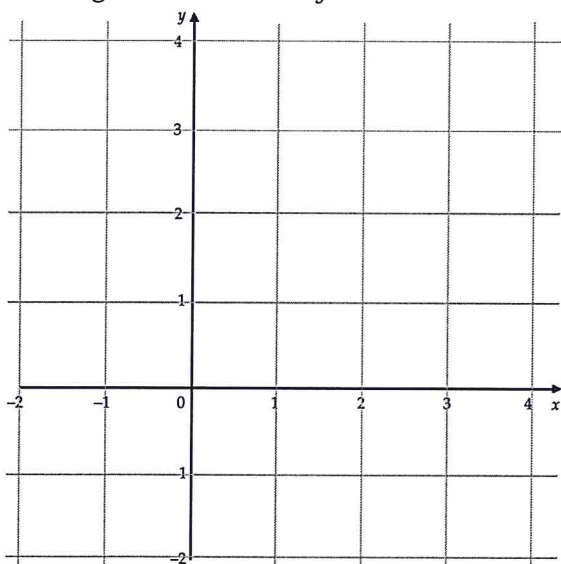
3. Write down the square numbers from this list:
4, 6, 8, 10, 16, 24, 25, 36 D _____

4. The sequence is generated by using the formula $3n+2$.
5, 8, 11, 14, ... Work out the 100th term. D _____

5. Solve the simultaneous equations
 $4x-2y=14$, $x+2y=6$ C _____

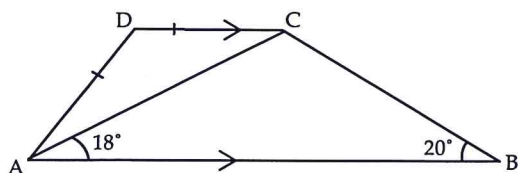
6. Work out
 - (i) $6-10$
 - (ii) $3-(-9)$
 - (iii) -8×-9
 - (iv) 5^4 E _____

7. On the grid draw the line $y=2x+1$ C _____



8. A cyclist travels x miles in a time of y hours. Write down an expression for the average speed in miles per hour. D _____

9. Calculate angle ADC C _____



10. Solve the equation $\frac{4x+1}{2} = 11.5$ C _____

11. Calculate $(1.2^3 - 1.1^2) \div \sqrt{7}$, giving your answer to 4 decimal places

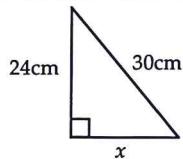
C _____

12. Write down a prime number from this list:
14, 17, 20, 27

E _____

13. Calculate the length of the side marked x

C _____



14. Multiply 3.5 by 2.5, giving your answer as a fraction

D _____

15. A coin is tossed twice. List the different outcomes and determine the probability of getting two heads.

C _____

16. A die is thrown and the number on the upper face is recorded. The results are below.

Score	Frequency
1	20
2	22
3	18
4	25
5	17
6	18

Give an estimate for the probability of scoring 6 cancelling down to its simplest form.

D _____

17. Write the number ten thousand and two in figures

E _____

18. Write down from this list: 2, 3, 4, 7, 10

(a) The prime numbers

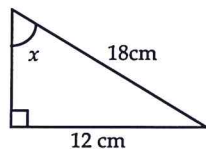
E _____

(b) A square number

E _____

19. Calculate the angle marked x

C _____



20.

Number	Probability
1	0.1
2	0.1
3	0.4
4	

The spinner is biased (see table).

(i) Complete the table

(ii) What is the probability that the spinner lands on either 2 or 3?

D _____