

Lighthouse 6 (Checkpoint 2)

1. Complete this times table grid

X	-7a	3b	+4c
6e			
-8f			
9a			

2. Simplify $42ab^3 \div 7a^2b$

3. Round 0.00427 to

a) 1 sf b) 2 sf

4. Write as a normal number

a) 2.1×10^{-3} b) 4.73×10^5



2a

a + 3

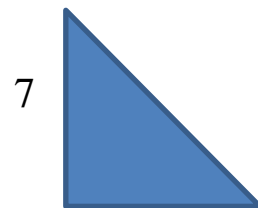
5. In a 20% off sale a hat costs £24. What was the price originally?

6. What is the value of a if the area of the rectangle is 108 cm^2 ?

7. A polygon's interior angles sum to 1440. How many sides does it have?

8. Q(1, 5) and R(4, 23) are the ends of a line segment
Find the equation of the line.

9. Solve $7x + y = 23$
 $4x - 2y = 8$



7

4

10. Find the missing side length
leave your answer as a surd (e.g. $\sqrt{51}$)

11. There are 6 reds and 4 green counters in a bag. I take one counter, put it back in the bag, and take another. What is the probability the two counters are the same colour?

12. Factorise a) $a^2 - 5a - 14$ b) $a^2 - 16$