

Name:

Date:

## Year 6 Reasoning Quiz 4

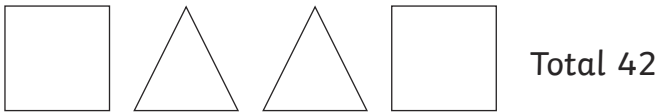
### Algebra

1.  $n = 24$   
What is  $3n - 15$ ?

2.  $28 - 3t = 10$   
Work out the value of  $t$ .


$t =$

3. Each shape represents a number.



Work out the value of each shape.

 =

 =

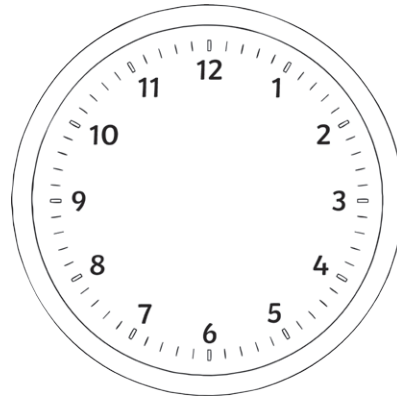
4. A plumber charges the following for any work done.

call-out charge = £15  
hourly rate = £21

Write a formula to explain what the plumber will charge for any number of hours work.

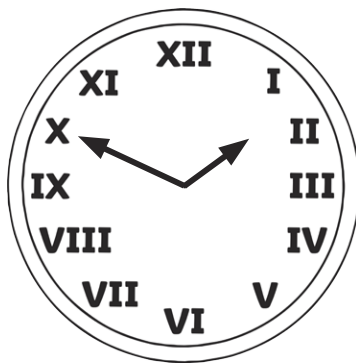
## Time

5. Draw the hands on this clock to show the time on this digital clock.



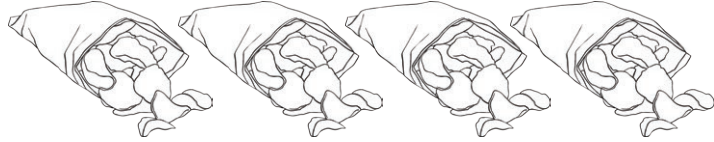
6. A film is 132 minutes long. It starts at 14:50. What time will it finish?

7. This clock is 17 minutes slow. What is the correct time?





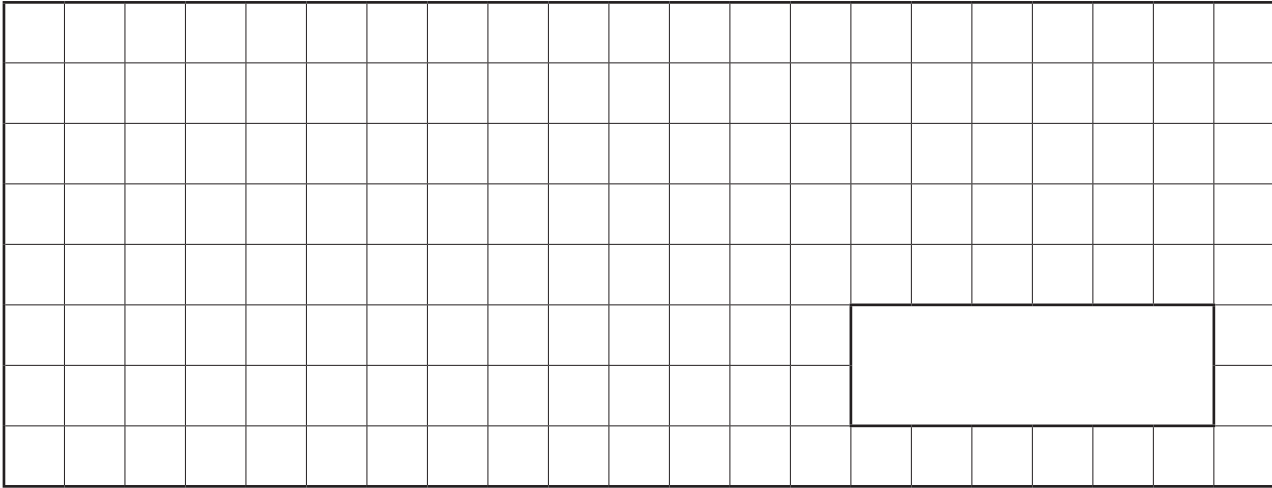
10. Robert buys 4 packets of crisps.



He pays with a £5 note. This is his change.

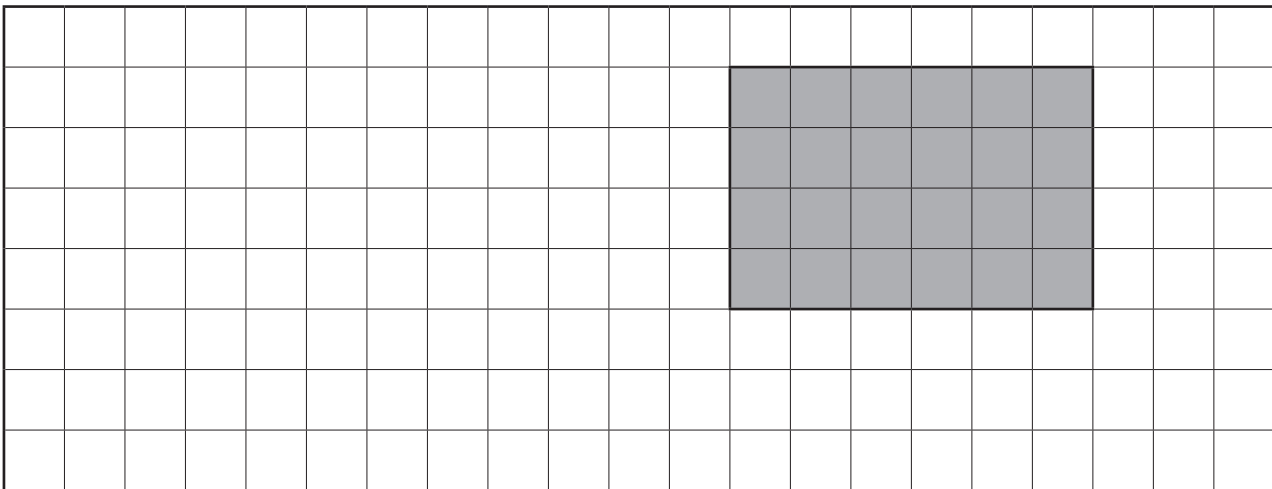


What is the cost of one packet of crisps? Show your method.

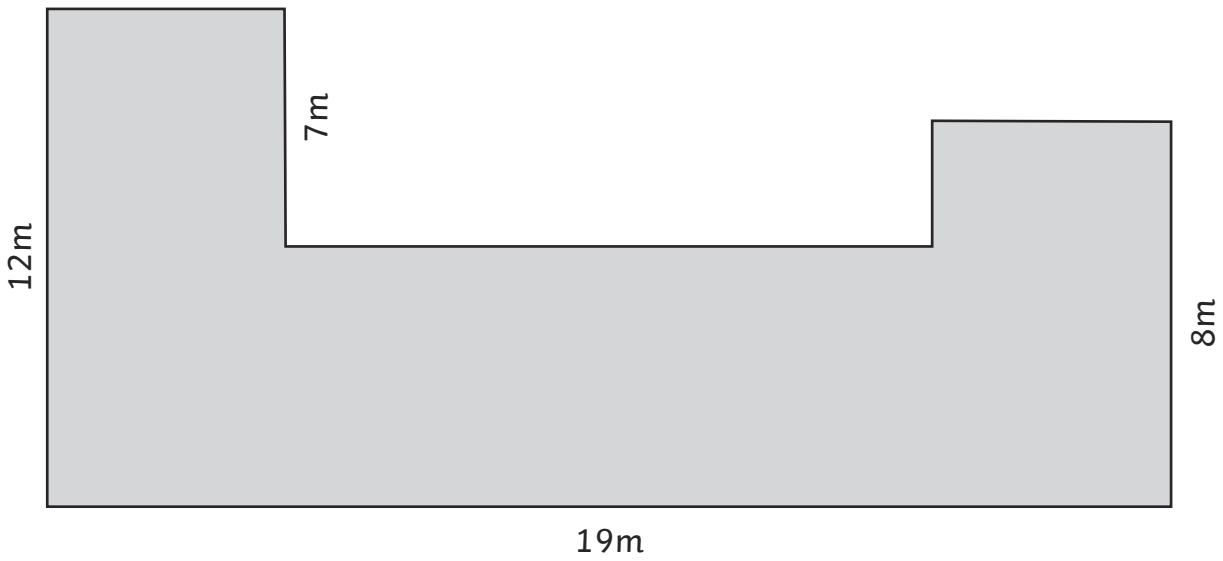


**Area and Perimeter**

11. On the grid, draw a triangle with the same area as this rectangle.



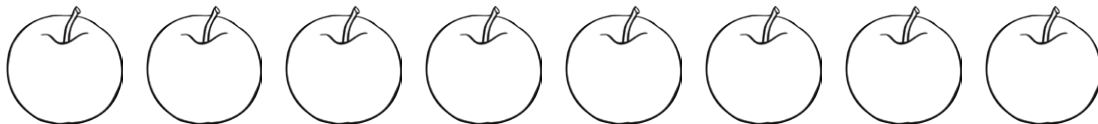
12. Calculate the perimeter of this rectilinear shape.



perimeter =

**Measurement**

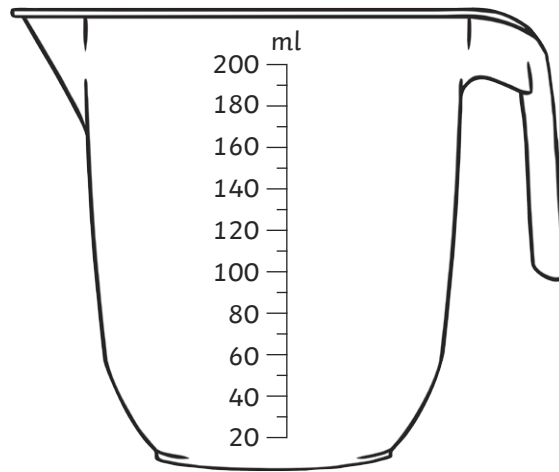
13. A pack of 8 apples weighs 1kg. What is the mean mass of each apple?




**g**

14. A jug contains 200ml of milk. Janek pours 135ml of milk into a bowl.

Mark on the jug how much milk will be left in the jug.



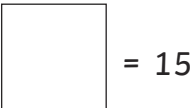
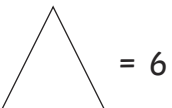
15. Measure the diagonal of this rectangle.



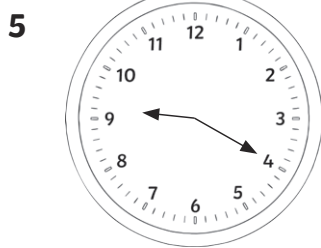
\*\*END OF TEST\*\*

1 57

2  $t = 6$

3  = 15  = 6

4 Cost = number of hours  $\times$  £21 + £15  
call out



6 17:02

7 2:07

8 13p

9 8p

10 69p

11 any triangle with an area of  $24\text{cm}^2$ .

12 68m

13 125g

14 65ml, marked quarter of way between  
60 and 80

15 10.8cm