

Name:

Date:

Year 6 Reasoning Quiz 4

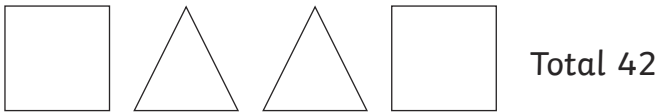
Algebra

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.

=

=

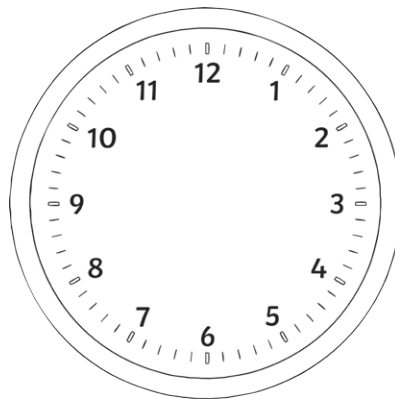
4. A plumber charges the following for any work done.

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

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

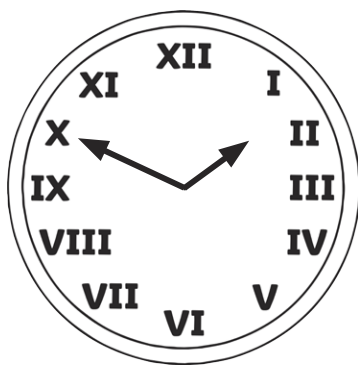
Time

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

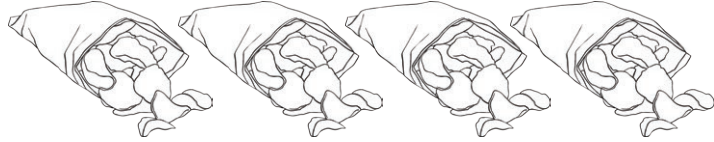


6. A film is 132 minutes long. It starts at 14:50. What time will it finish?

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



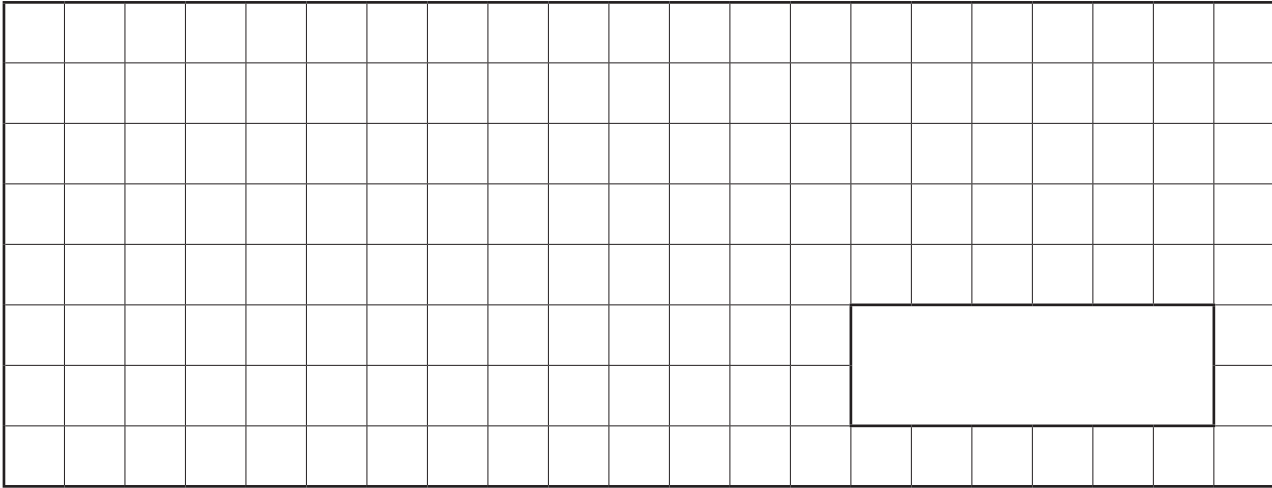
10. Robert buys 4 packets of crisps.



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

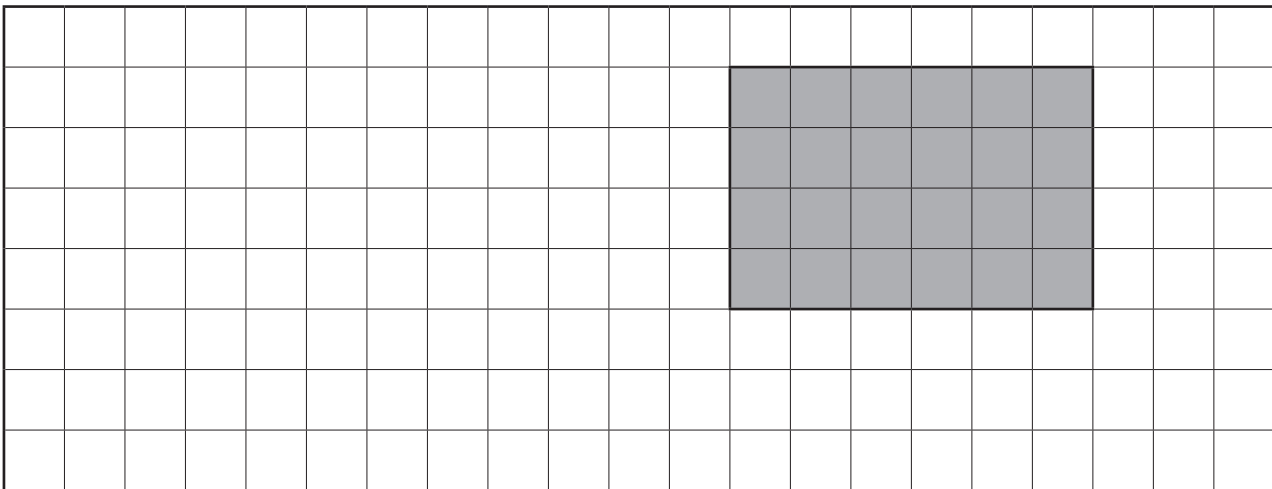


What is the cost of one packet of crisps? Show your method.

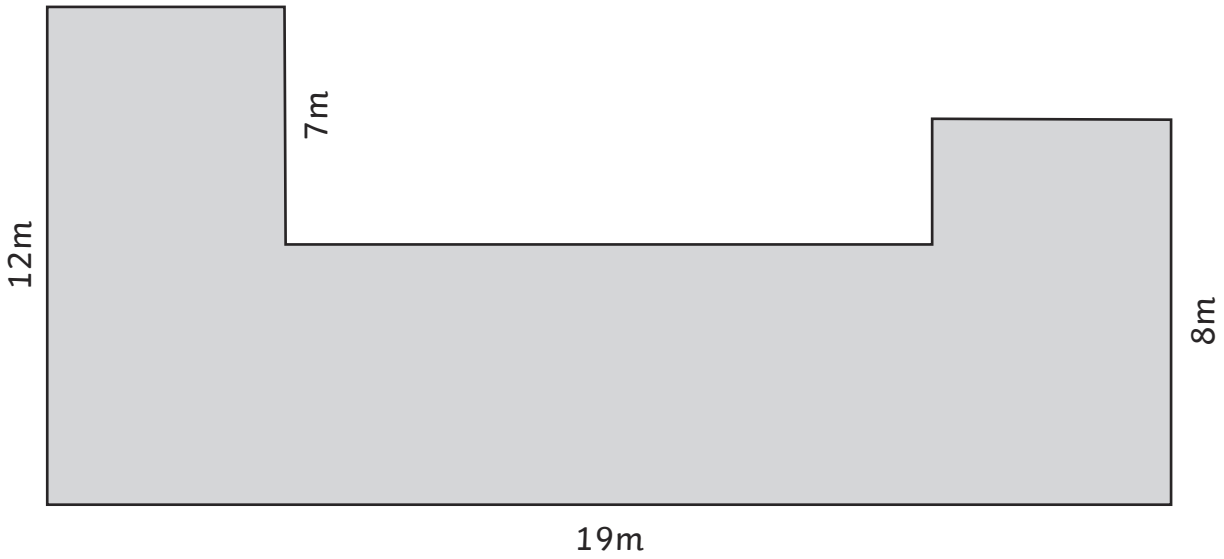


Area and Perimeter

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



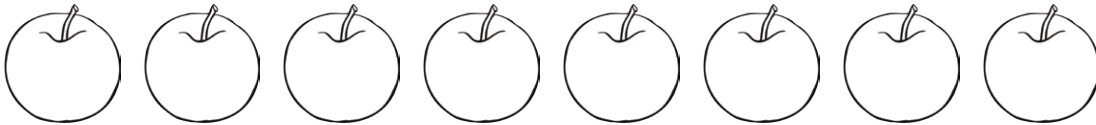
12. Calculate the perimeter of this rectilinear shape.



perimeter =

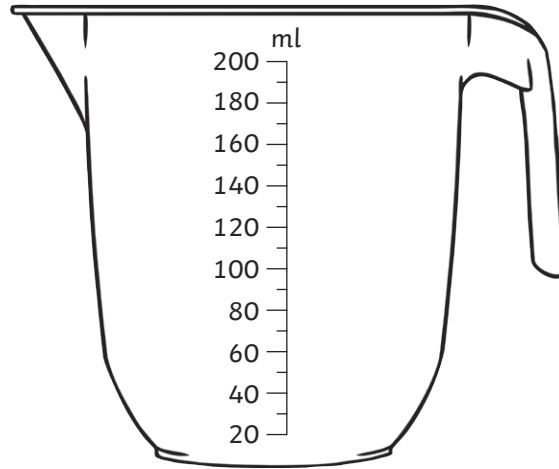
Measurement

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



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.



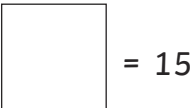
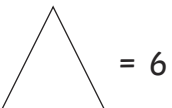
15. Measure the diagonal of this rectangle.



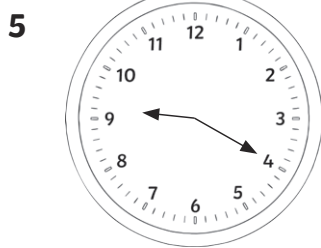
****END OF TEST****

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 24cm^2 .

12 68m

13 125g

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

15 10.8cm