

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.

Total 45

Total 42

Work out the value of each shape.

=

=

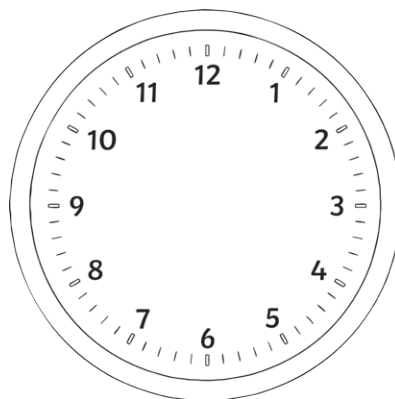
4. A plumber charges the following for any work done.

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

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

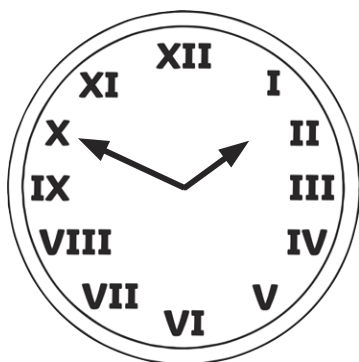
### Time

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?



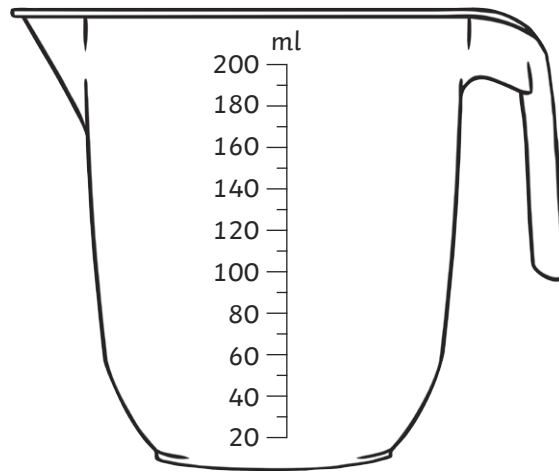






14. A jug contains 200ml of milk. Janek pours 135ml of milk into a bowl.

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



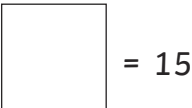
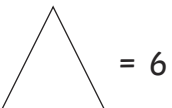
15. Measure the diagonal of this rectangle.



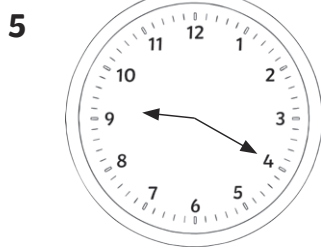
**\*\*END OF TEST\*\***

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