

National Numeracy Tests

PROCEDURAL

3EP17

First name _____

Last name _____

School _____

Class _____

Date of birth ○○ ○○ ○○○○

Date of test ○○ 05 2017

Total score (maximum 30)



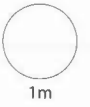
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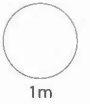
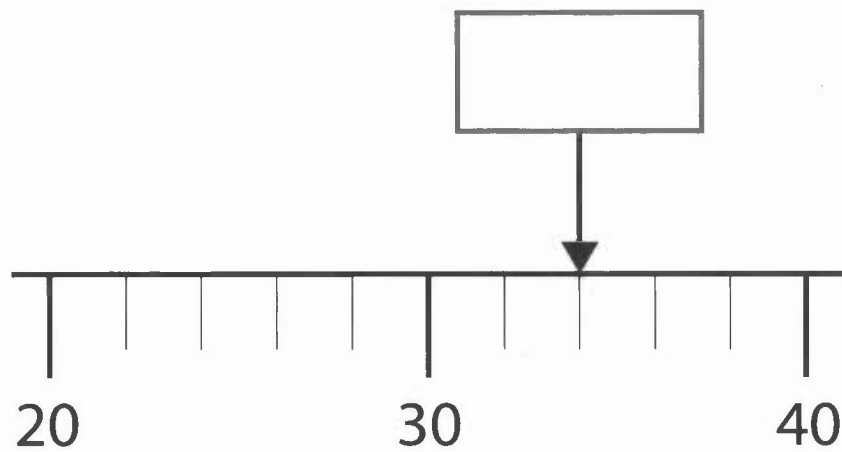
Llywodraeth Cymru
Welsh Government

- 1 Circle **three** numbers that **add** to make **10**

7 2 8 1 3

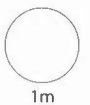
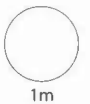


- 2 What number is the arrow pointing to?







3 Double 22 =


Half of 22 =



4 Children in Class 3 choose their favourite sport.

Results

rugby	
swimming	
football	
running	

Key:
 = 2 children

How many children choose **football**?

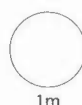
children



More children choose **rugby** than **running**.

How many more?

more



5 What could the missing numbers be?

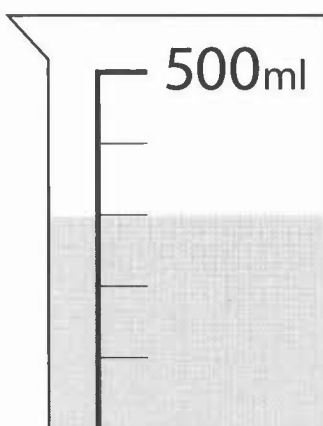
$$15 + \square + \square = 20$$

Now write **different** numbers.

$$15 + \square + \square = 20$$



6



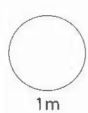
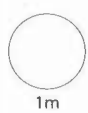
How much water is in the jug?

 ml


7

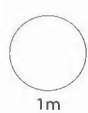
$$53 + 28 = \boxed{}$$

$$63 - 39 = \boxed{}$$



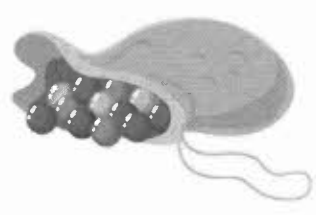
8

$$\frac{1}{5} \text{ of } 30 = \boxed{}$$



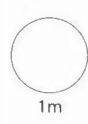
9

There are 27 balls in a bag.



3 children share them **equally**.

How many balls do they each get?



TOTAL



10

$$8 \times 4 = \square \times 8$$



11 Mrs Davies has **18** books in her shop.

She **sells 13** of them.

She **buys 15** more.

How many books does she have now?

books

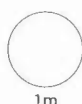


12 Beth has **72p**.

She spends **half** of her money.

How much does she spend?

p

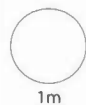


13 Write these amounts of money in order.

£7.42 740p £7.24 74p

smallest

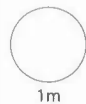
largest



1m

14

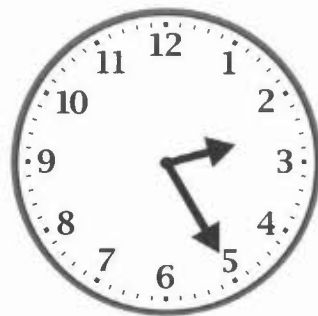
$10 \times 18 =$



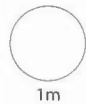
1m

15 Look at the clock.

How many minutes until **3 o'clock**?



minutes



1m

TOTAL




6m

16

Dan saves	
week 1	78p
week 2	45p
week 3	50p

Dan saves to buy a toy that costs £1.99

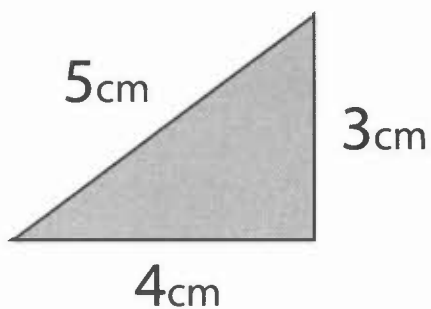
How much **more** money does he need?



p more

2m

17

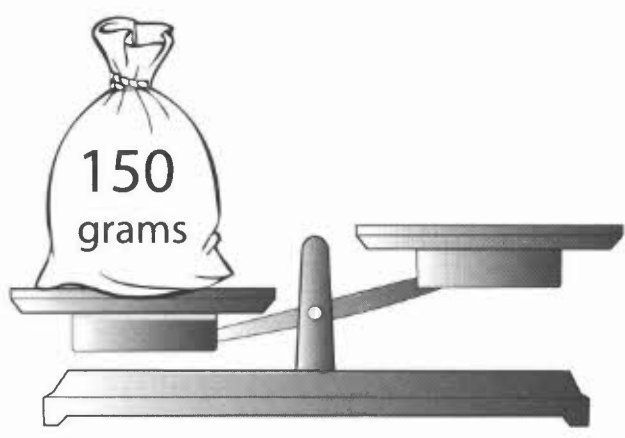


What is the **perimeter** of this triangle?

cm

1m

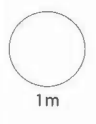
18



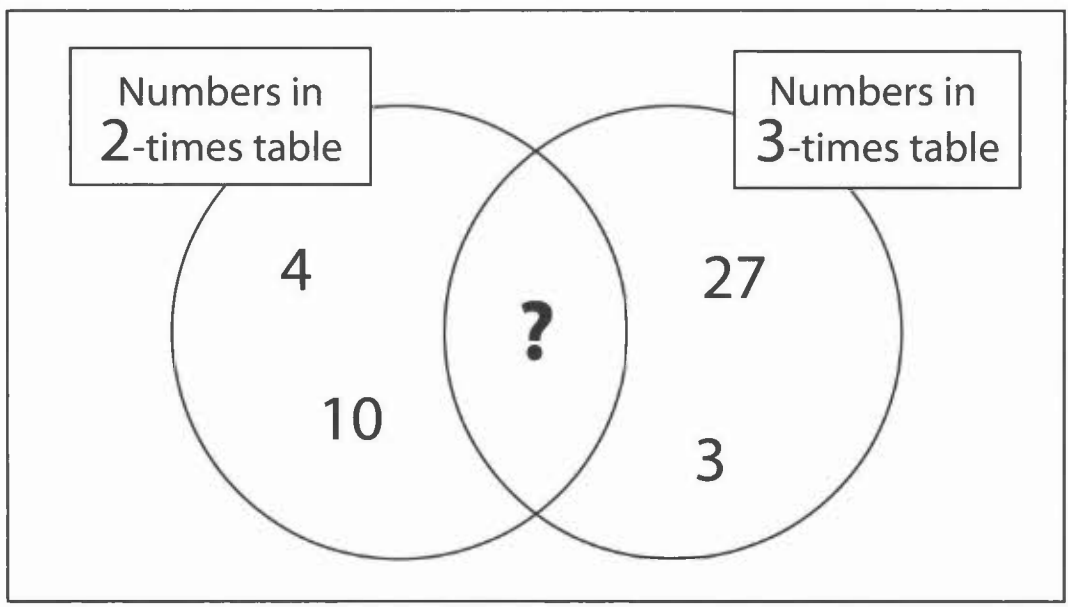
David wants to balance the scales.

How many 10 gram weights does he need?

weights

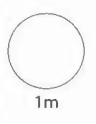


19



? could be 6

Write **another number** it could be.



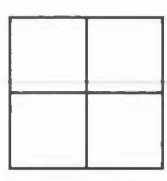
TOTAL



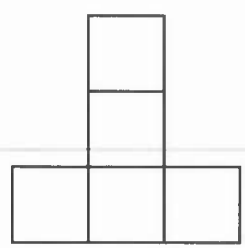
20 Here are 5 shapes.



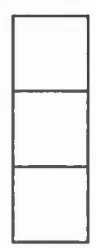
A



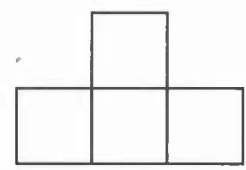
B



C

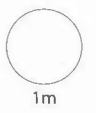


D



E

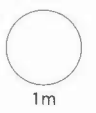
Shape and shape have the **same area**.



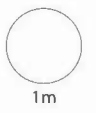
21 Two numbers have a **difference** of 10

One number is 60

What could the other number be?



What else could it be?



22 A show lasts $1\frac{1}{2}$ hours.


How many **minutes** does it last?

minutes




23

1 lollipop costs
20p



1 sweet costs
5p




Lin buys lollipops and sweets.

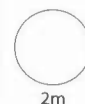
Altogether she pays **£1.30**

She buys **4 lollipops**.

How many **sweets** does she buy?



sweets



TOTAL



National Numeracy Tests

PROCEDURAL

3EP17MS

Markscheme



150242



Llywodraeth Cymru
Welsh Government

3EP17 Procedural test: Markscheme

Q	Marks	Answer	Comments
1	1m	7 2 8 1 3	Accept any unambiguous indication, e.g. underlining correct numbers
2	1m	34	
3i	1m	44	
3ii	1m	11	
4i	1m	6 children	
4ii	1m	5 more	
5i	1m	Any two numbers that have a sum of 5	Examples for 1m: $15 + 3 + 2 = 20$ $15 + 1\frac{1}{2} + 3\frac{1}{2} = 20$ Do not accept the omission of a number in the box as indicating zero
5ii	1m	Any different two numbers that have a sum of 5	Accept numbers reversed, e.g. $15 + 5 + 0 = 20$ in 5i $15 + 0 + 5 = 20$ in 5ii
6	1m	300ml	Accept 295ml to 305ml inclusive
7i	1m	81	
7ii	1m	24	
8	1m	6	
9	1m	9 balls	

Q	Marks	Answer	Comments
10	1m	$8 \times 4 = 4 \times 8$	
11	1m	20 books	
12	1m	36p	
13	1m	74p, £7.24, 740p, £7.42	Accept unambiguous indication, e.g. units and/or decimal points omitted
14	1m	180	
15	1m	35 minutes	Accept 34 minutes to 36 minutes inclusive
16	2m Or 1m	26p more Shows the digits 26 Or Shows 1.73 or 173 Or Incorrect answer, but shows a method that would lead to 26p if calculated correctly, with not more than one numerical error	Examples for 1m: 0.26, 2.6 Example of a correct method: $78 + 45 + 50 = 163$ (error), $199 - 163 = 36$
17	1m	12cm	
18	1m	15 weights	
19	1m	Any number in the 6-times table, apart from 6	Examples for 1m: 12 600 Do not accept negatives or zero

Q	Marks	Answer	Comments
20	1m	B and E, in either order	Accept any unambiguous indication, e.g. shapes B and E drawn
21i	1m	50 (or 70)	
21ii	1m	70 (or 50)	Must be different from the answer to 21i
22	1m	90 minutes	
23	2m Or 1m	10 sweets Shows 50 Or Incorrect answer, but shows a method that would lead to 10 if calculated correctly, with not more than one numerical error	Example of a correct method: $20 \times 4 = 80$, $\pounds 1.30 - 80 = 40$ (error), $40 \div 5 = 8$