2024 national curriculum tests

Key stage 1

Mathematics

Paper 2: reasoning

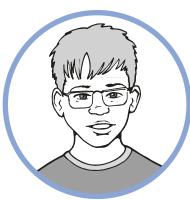
First name	
Middle name	
Last name	

Total marks









Ben







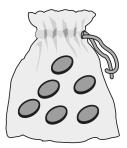
Kemi

Practice question









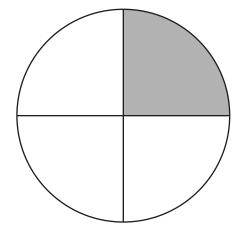
tens



9

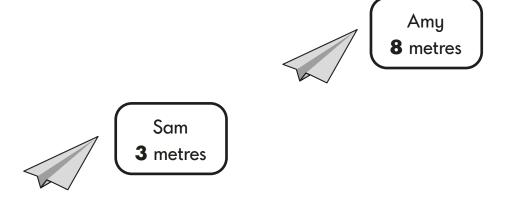
August						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31











metres



2

4

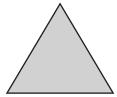
5

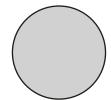
6

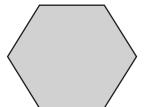
7

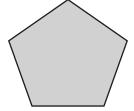
1 mark

Tick the shape she has drawn.











This table shows the different colours of horses on a farm.

Horse colour	Number of horses
black	2
brown	0
grey	4
white	7

Use the table to complete the graph below.

One is done for you.

9

black

brown

1 mark

white

grey

Horse colour

8 There are **16** ducks on the pond.

5 ducks fly away.



How many ducks stay on the pond?





9 Write the missing numbers in this pattern.

	71	73	74



10 Here is a shape pattern.

Shade the **last two** boxes to complete the pattern.



















11 Sam has 90 marbles.

He gives **50** marbles to Ben.

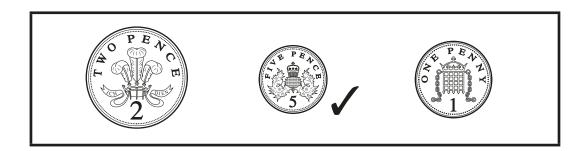
How many marbles does Sam have left?

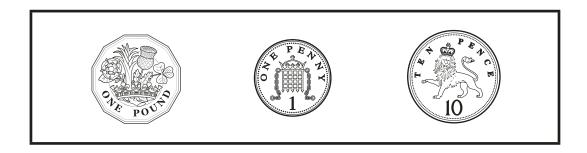
marbles

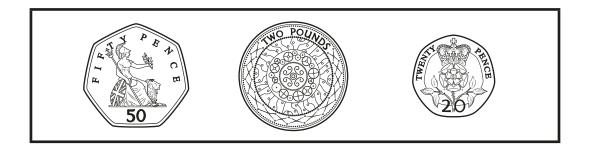


In each box, tick the coin that has the **greatest value**.

One is done for you.

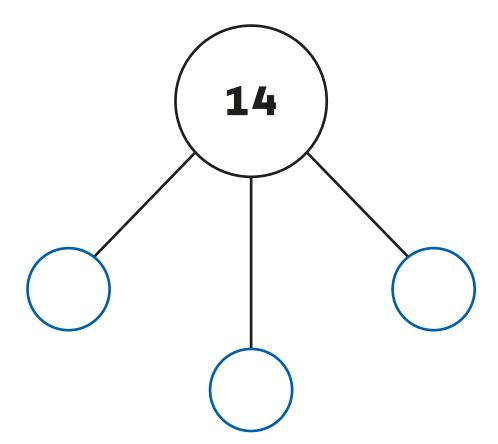






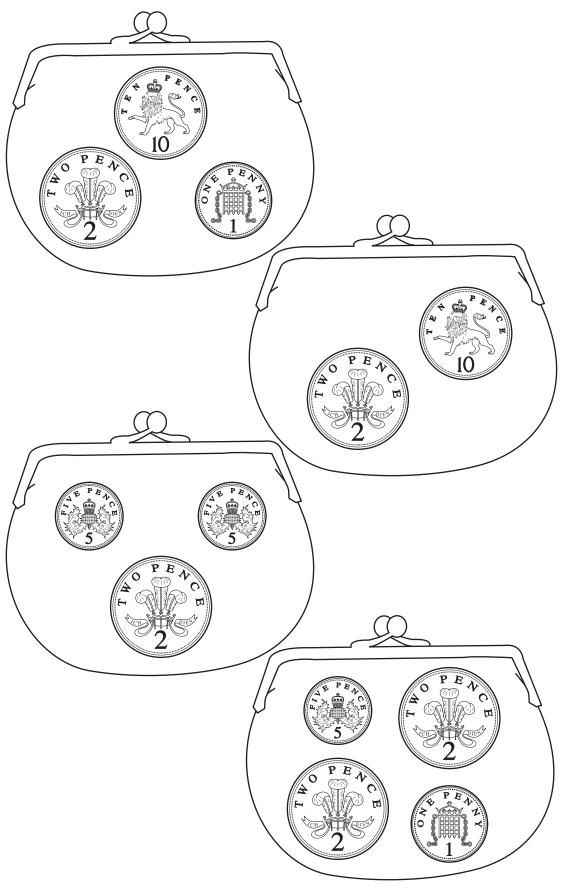


Write a number in each empty circle so that all three numbers total **14**





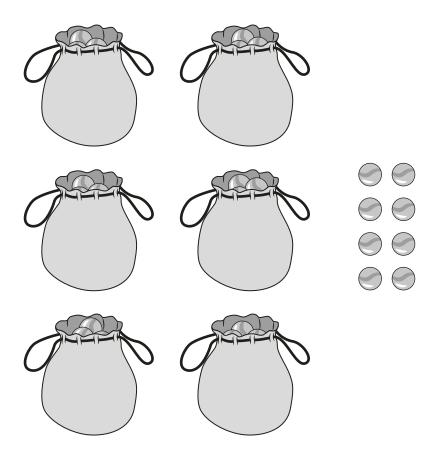
14 Tick **two** purses with the **same** amount of money.





Ajay has some marbles.

He puts 10 marbles into each bag. He has 8 left over.



How many marbles does Ajay have **altogether**?

marbles



16 Complete the number sentence below.





17 Ajay had 18 strawberries.

He picked some **more**.



Ajay now has 24 strawberries.

How many **more** strawberries did he pick?

strawberries





One calculation does not equal 17

Cross it out.

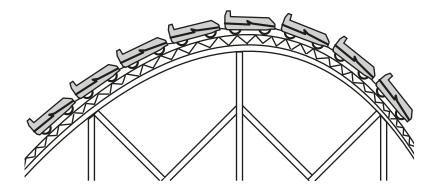
$$8 + 9$$

$$20 - 3$$

$$3 - 20$$

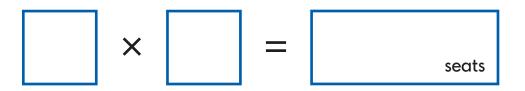


19 A ride has 8 cars.



There are **5** seats in each car.

Complete the number sentence to show the **total** number of seats on the ride.





The diagram below shows number bonds that make 20

Write the missing numbers to complete the diagram.

One is done for you.

20				
6	_		14	
9				
12				_



This number pattern increases by **10** each time.

7 17 27 37

Circle **all** the numbers below that will be in the pattern.

57 66

75 97



Stickers are sold in packs of ${\bf 5}$

Kemi has **30** stickers altogether.

How many packs does Kemi have?

packs



23

Amy has 45p.

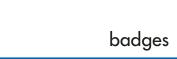






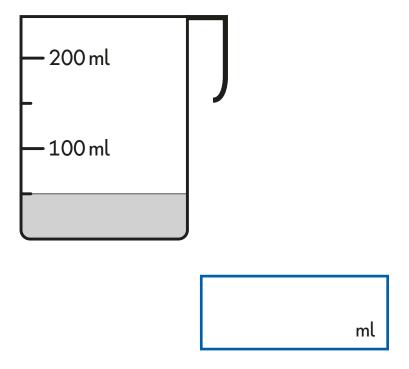
A badge costs **10p**.

What is the **total** number of badges that Amy can buy with 45p?





How much juice is in this measuring jug?





25 Tick **all** the calculations that total **100**

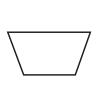
$$80 + 30$$

$$35 + 65$$



Three of the shapes below have a line of symmetry.

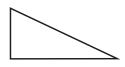
Tick the **three** shapes.





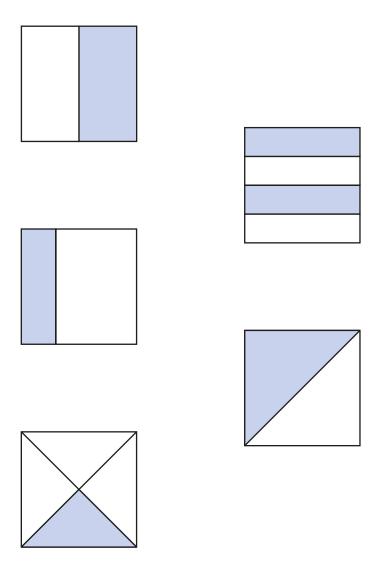






1 mark







Only **one** number sentence is correct.

Circle it.

$$\frac{1}{4} = \frac{1}{2}$$

$$\frac{2}{4} = \frac{1}{3}$$

$$\frac{3}{4} = \frac{1}{2}$$

$$\frac{2}{4}=\frac{1}{2}$$



Complete the number sentence.

One is done for you.

$$\frac{1}{4}$$
 of $8 = 2$

$$\frac{3}{4}$$
 of 8 =



30 Sita only puts **5p** coins in a bag.

There is a **total of £1** in the bag.



How many 5p coins are in the bag?





There are **30** animals on a farm.

 $\frac{1}{2}$ of the animals are cows.



9 are sheep.



The rest are horses.

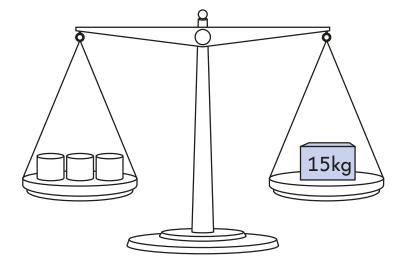


How many of the animals are horses?





32 Here is a balance.



The mass of the is 15 kg.

What is the mass of **one** ?





33 Sita buys a drink that costs 65p.

She pays with **four** 20p coins.

How much **change** does Sita get?







End of test

[BLANK PAGE]

Please do not write on this page.



2024 key stage 1 mathematics

Paper 2: reasoning

Print version product code: STA/24/8808/p ISBN: 978-1-83507-004-8

Electronic PDF version product code: STA/24/8808/e ISBN: 978-1-83507-023-9

For more copies

Additional printed copies of this booklet are not available. It can be downloaded from https://www.primaryassessmentgateway.education.gov.uk during May 2024, or afterwards from https://www.gov.uk/government/collections/national-curriculum-assessments-practice-materials.

© Crown copyright 2024

Re-use of Crown copyright in test materials

With the exception of third-party copyright content, the 2024 key stage 1 test materials are Crown copyright. You may re-use them (not including logos) free of charge in any format or medium in accordance with the terms of the Open Government Licence v3.0 which can be found on the National Archives website and accessed via the following link: www.nationalarchives.gov.uk/doc/open-government-licence. When you use this information under the Open Government Licence v3.0, you should include the following attribution: 'Contains material developed by the Standards and Testing Agency for 2024 national curriculum assessments and licensed under Open Government Licence v3.0' and where possible provide a link to the licence.



Exception – third-party copyright content in test materials

Schools and other educational establishments, as defined in the Copyright Designs and Patents Act 1988 (CDPA), may re-use the test materials in their entirety for teaching purposes: https://www.gov.uk/guidance/exceptions-to-copyright. However, if not expressly permitted under the CDPA, you must obtain permission from the relevant copyright owners, listed in the '2024 key stage 1 tests copyright report', for re-use of any third-party copyright content which we have identified in the test materials. Alternatively, you should remove the unlicensed third-party copyright content and/or replace it with appropriately licensed material.

If you have any queries regarding these test materials, contact the national curriculum assessments helpline on 0300 303 3013 or email assessments@education.gov.uk.