



THIRD SPACE
LEARNING

Year 6 Addition & Subtraction Practice Test

25 KS2 SATs Questions
and Mark Scheme:
Arithmetic and Reasoning



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25 KS2 SATs Questions and Mark Scheme: Arithmetic and Reasoning

First name	
Last name	
Class	
Score	/ 25

Instructions

You **may not** use a calculator to answer any questions in this test.

Questions and answers

- Follow the instructions for each question.
- Work as quickly and as carefully as you can.
- If you need to do working out, you can use the space around the question.
- Do not write over any barcodes.
- For these questions, you may get a mark for showing your method.
- If you cannot do a question, **go on to the next one**.
- You can come back to it later, if you have time.
- If you finish before the end, **go back and check your work**.

Marks

- The number under each line at the side of the page tells you the maximum number of marks for each question.

1 Choose two numbers to complete this calculation

$$\square + \square = 72$$

19 22 51 33 53

1 mark

2 Fill in the missing number

$$63 + 28 = 100 - \square$$

1 mark

3

$2\,483 + 5\,048 =$

1 mark

4

$= 78\,425 - 13\,214$

1 mark

5 $4^2 + 8 =$

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1 mark

- 6 a) There were 2 408 people on board a cruise ship. At the next port, it takes on 557 more passengers, but 379 people get off. How many passengers are on board the ship now?

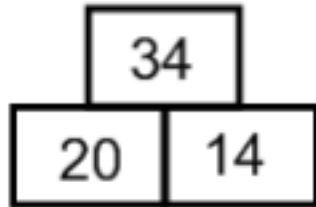
1 mark

- b) If 658 of these passengers are children, how many adults are on board?

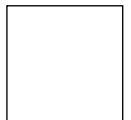
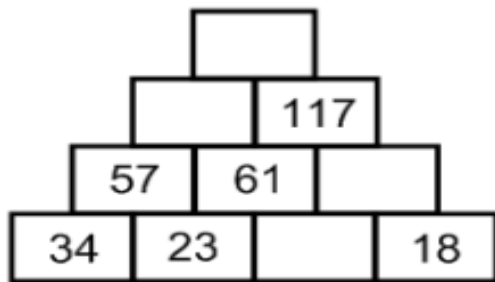
1 mark

- 7 Each number in the addition wall is made from adding the numbers in the two boxes directly below.

E.g.



Complete this addition wall



2 marks

8

$8\,000\,000 - 10 =$

1 mark

9 Circle two numbers that have a difference of 230

340

580

250

810

120

1 mark

10 $7.34 + 32.08 + 403.9 =$

1 mark

11

Mrs Redley spent £23 407 on a new kitchen and then spent £2 073 on her grandchildren's Christmas presents. She has £19 098 left in her bank account. How much money did she have to begin with?

1 mark

- 12 A new sports car costs £105 099. After 3 years, its value is reduced by £47, 520. How much is the car worth after 3 years?

1 mark

13 $8 - 2.34 =$

1 mark

14 The prices in a cafe are shown in the table below

Food item	Price
Pizza	£1.75
Chips	95p
Salad	£1.36
Burger	£1.43
Hotdog	87p

Jake buys a hotdog and a salad. Audrey buys a pizza and chips. How much more does Audrey spend than Jake?

2 marks

- 15 After his birthday, Carter has 5 238 football cards having received 257 cards from his Gran and 93 cards from his brother. How many cards did Carter have before his birthday?

1 mark

16

This table shows the number of visitors to an art gallery at different months throughout the year.

3 month period	Total visitors
Jan - Mar	42 371
Apr - Jun	60 158
Jul - Sept	98 044
Oct - Dec	77 108

How many more visitors were there in the last half of the year than in the first half of the year?

2 marks

17 $113.26 - 28.5 =$

1 mark

18

$$7\,205\,415 = \boxed{} + 4\,923\,807$$

1 mark

- 19 Fill in the missing numbers to make this calculation correct:

$$\begin{array}{r}
 \square \ 3 \ 4 \ \square \ 1 \\
 + \quad \square \ \square \ 7 \ 6 \\
 \hline
 2 \ 5 \ 7 \ 5 \ 7
 \end{array}$$

1 mark

20

23 672 more people attended the Star Wars exhibition this year than last year. If 216 479 people went this year, how many people went last year?

1 mark

21

A farmer has 42.6kg of animal feed. Each day he uses 5.75kg for his cows; 1 950g for his hens and 2 425g for his sheep. After 2 days, how much feed will he have left?

2 marks

22

The post office received 1 327 401 letters in December and 864 058 letters in January. Estimate the total number of letters received in December and January?

a) Estimate the answer by rounding to the nearest 10 000 first.

1 mark

b) What is the actual total number of letters received?

1 mark

23

The table below shows the average temperature in Antarctica at different times of the year

Time of year	Temperature (°C)
Jan	-25
Apr	-1
Aug	12
Dec	-22

What is the difference in temperature between January and August?

1 mark

- 24 Jamie has to drive 327.3 miles to Wales and then a further 186.9 miles to Devon. During his drive, he stops for a 10 minute break after 293.4 miles. How many more miles will he still need to drive to reach Devon?

1 mark

25

Ella goes on a shopping spree and buys a handbag for £126.58; headphones for £37.25 and a pair of sunglasses. She had £200 to spend and now has the following left in her purse:

£10 £5 £2 50p 20p 5p

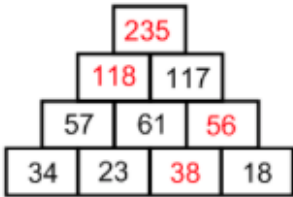
What did she pay for her sunglasses?

2 marks

The instructions and principles of this mark scheme closely follow the guidance in the 2016 national curriculum tests. We have deliberately not set a limited time for the test paper as a teacher may want to vary it according to the standard individual children are working at.

The national curriculum test allows 40 minutes to complete this test.

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Q	Required answer	Mark	Acceptable answer or additional guidance	Content Domain Ref	NC strand
1	Circle 19 and 53	1m	Do Not Accept more than two numbers circled	3C1	Calculation
2	9	1m		3C4	Calculation
3	7 531	1m		4C2	Calculation
4	65 211	1m		5C2	Calculation
5	24	1m		6C9	Calculation
6a	2 586 people on board	1m		5C4/6C4	Calculation
6b	1 928 adults	1m		5C4/6C4	Calculation
7	Award two marks for all four correct answers 	Up to 2m	Award One mark for any two or three correct answers	3C4	Calculation
8	7 999 990	1m		5C1/5C2	Calculation
9	Circled 580 and 810	1m	Do Not Accept more than two numbers circled	3C1	Calculation
10	443.32	1m		5F8	Fractions
11	£44 578	1m		5C4/6C4	Calculation
12	£57 579	1m		5C2	Calculation
13	5.66	1m		5F8	Fractions

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Q	Required answer	Mark	Acceptable answer or additional guidance	Content Domain Ref	NC strand
14	<p>Award two marks for the correct answer of 47p</p> <p>If answer is incorrect, award one mark for evidence of an appropriate method with no more than one arithmetic error e.g.</p> <p>87 + 136 = 224 (error) 175 + 95 = 270 270 - 224 = 46p</p>	Up to 2m	<p>Accept £0.47 Do Not Accept £0.47p</p> <p>Answer need not be obtained for the award of one mark.</p>	5F10/5C4	Fractions/ Calculation
15	4 888 cards	1m		4C4	Calculation

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Q	Required answer	Mark	Acceptable answer or additional guidance	Content Domain Ref	NC strand
16	<p>Award two marks for the correct answer of 72 623 more visitors</p> <p>If answer is incorrect, award one mark for evidence of an appropriate method with no more than one arithmetic error e.g.</p> $\begin{array}{r} 98044 \\ + 77108 \\ \hline 175102 \text{ (error)} \end{array} \qquad \begin{array}{r} 42371 \\ + 60158 \\ \hline 102529 \end{array}$ <p>175102 - 102529 = 72573</p>	Up to 2m	Answer need not be obtained for the award of one mark.	5F10/5C4	Fractions/ Calculation
17	84.76	1m		4C4	Calculation
18	2 281 608	1m		5F8	Fractions
19	$\begin{array}{r} \boxed{2} \ 3 \ 4 \ \boxed{8} \ 1 \\ + \quad \boxed{2} \ \boxed{2} \ 7 \ 6 \\ \hline 2 \ 5 \ 7 \ 5 \ 7 \end{array}$	1m		5C2	Calculation
20	192 807 people	1m		5C2	Calculation

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Q	Required answer	Mark	Acceptable answer or additional guidance	Content Domain Ref	NC strand
21	<p>Award two marks for the correct answer of 22.35kg left</p> <p>If answer is incorrect, award one mark for evidence of an appropriate method with no more than one arithmetic error e.g.</p> <p>$(5.75 + 1.95 + 2.425) \times 2 = 20.5$ (error)</p> <p>$42.6 - 20.5 = 22.1\text{kg}$</p>	Up to 2m	<p>Accept 2235g</p> <p>Answer need not be obtained for the award of one mark.</p>	5F10/6C4	Fractions/ Calculation
22a	2 190 000	1m		6C4	Calculation
22b	2 191 459 letters	1m		6C4	Calculation
23	37°C	1m	Do Not Accept -37°C	6N5	Number
24	220.8 miles	1m		5F10	Fractions

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Q	Required answer	Mark	Acceptable answer or additional guidance	Content Domain Ref	NC strand
25	<p>Award two marks for the correct answer of £18.42</p> <p>If answer is incorrect, award one mark for evidence of an appropriate method with no more than one arithmetic error e.g.</p> <p>$£10 + £5 + £2 + 50p + 20p + 5p = £17.75$</p> <p>$200 - 17.75 - 126.58 - 37.25 = £18.45$ (error)</p>	Up to 2m	Answer need not be obtained for the award of one mark.	5F10/6C4	Fractions/ Calculation