Steady Steps Maths

FREE UNIT TEST · TOPIC 3

FREE SAMPLE · UNIT TEST A

Odd, Even & Arrays

Unit Test A · 40 marks · about 40 minutes

GRADE 2



Common Core 2.OA.C.3–4

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Name _____ Date _____

UNIT TEST A Odd, Even & Arrays

40 marks · about 40 minutes · Common Core 2.OA.C.3 · 2.OA.C.4

Name _____ **Date** _____

Instructions

- Answer **every** question in the space given.
- Show your working: in Sections B and C you get marks for your method, even if the final answer is wrong.
- The number in brackets, like [2], shows how many marks a question is worth.
- You have about 40 minutes. A calculator is **not** needed.
- Check your answers if you finish early.

Your score

Section	Questions	Marks	Your score
A · Quick questions	1–10	10	
B · Show your working	11–16	17	
C · Problem solving	17–18	13	
Total		**40**	

Percentage: _____ % 85%+ excellent · 65–84% good · 45–64% keep practising · below 45% revise the packs first

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SECTION A Quick questions

1 mark each · write your answer in the box

1 Is 12 odd or even? [1]

Answer

2 Are there an odd or an even number of dots? [1]



Answer

3 Write 18 as a double: 18 = ☐ + ☐ [1]

Answer

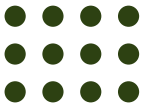
4 Count in 2s. What comes next? 12, 14, 16, ☐ [1]

Answer

5 13 children make pairs. Is one child left without a partner? [1]

Answer

6 How many dots are in this array? [1]



Answer

7 An array has 2 rows with 4 in each row. Write an addition to find the total. [1]

Answer

8 Chairs are put in 2 rows with 3 chairs in each row. How many chairs? [1]

Answer

9 Write the even number that comes just after 15. [1]

Answer

10 2 + 2 = ☐ [1]

Answer

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SECTION B Show your working

Marks are given for your method

11 Draw 19 dots in pairs. Is 19 odd or even? Explain how your drawing shows it. [2]

Answer

12 (a) Write 8 as a double. (b) Is 8 odd or even? (c) Write 9 as a double plus 1. [3]

Answer

13 Draw an array with 3 rows of 5 dots. [3]
(a) Draw it. (b) Write an addition for the rows. (c) How many dots altogether?

Answer

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14 Look at this array. [3]

(a) Write an addition for the rows. (b) Write an addition for the columns.

(c) How many dots altogether?



Answer

15 Rana says 3 + 3 = 6 is odd, because 3 is odd. Is Rana right? Explain. [2]

Answer

16 Here are six numbers: 18, 5, 7, 14, 13, 10 [4]

(a) Write the even numbers. (b) Write the odd numbers.

Answer

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SECTION C Problem solving

Longer questions with several steps

17 A baker puts muffins on a tray in 5 rows with 4 muffins in each row. [7]
(a) Draw an array to show the muffins. (b) Write an addition to find how many muffins.
(c) How many muffins are there? (d) Can the muffins be shared equally between 2 children with none left over? Explain.

Answer

18 Karim has 11 stickers. [6]
(a) Is 11 odd or even? Explain using pairs. (b) Karim is given 5 more stickers. Is the new total odd or even?
(c) Write the new total as the sum of two equal numbers.

Answer

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Mark scheme

For parents · give the marks shown; method marks can be given even if the final answer is wrong

Tip: Give method marks generously when the working shows the right idea. If a mistake early on is carried through correctly, give the later marks.

Q	Answer	Marks	How to award the marks
1	even	1	
2	odd (13 dots)	1	
3	9 + 9	1	
4	18	1	
5	yes (it is odd)	1	
6	12	1	
7	4 + 4 = 8 (or 2 + 2 + 2 + 2)	1	
8	6	1	
9	16	1	
10	4	1	
11	odd: 9 pairs and 1 left over	2	1 mark for a drawing in pairs; 1 mark for “odd” with the reason (one left over).
12	(a) 4 + 4 (b) even (c) 4 + 4 + 1	3	1 mark each part.
13	(a) 3 rows of 5 (b) 5 + 5 + 5 (c) 15	3	1 mark each part. Follow through from the drawing.
14	(a) 5 + 5 (b) 2 + 2 + 2 + 2 + 2 (c) 10	3	1 mark each part.
15	No: 6 is even. A double can always be put into pairs.	2	1 mark for “no, it is even”; 1 mark for a reason (pairs, or it is a double).
16	(a) 18, 14, 10 (b) 5, 7, 13	4	2 marks for each part: 2 if all three are right with none wrong, 1 if one mistake.
17	(a) 5 rows of 4 (b) 4 + 4 + 4 + 4 + 4 (or 5 + 5 + 5 + 5) (c) 20 (d) Yes: 20 is even (10 + 10)	7	(a) 2 marks. (b) 2 marks. (c) 1 mark. (d) 2 marks: 1 for odd/even, 1 for the reason. Follow through.
18	(a) odd: 5 pairs and 1 left over (b) 11 + 5 = 16, even (c) 8 + 8 = 16	6	2 marks each part: (a) 1 for odd, 1 for the reason; (b) 1 for the total, 1 for even; (c) 1 for equal numbers, 1 for the correct sum.

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What to revise

Circle the questions your child lost marks on, then go back to the matching part of the pack

Questions	Skill	Revise in	✓ / ×
1, 16	Odd or even?	Pack 1 · Odd & Even Numbers, Part 4	
2, 5, 11	Making pairs	Pack 1 · Odd & Even Numbers, Part 1	
3, 12, 15	Even numbers as doubles	Pack 1 · Odd & Even Numbers, Part 3	
4, 9	Counting in 2s	Pack 1 · Odd & Even Numbers, Part 2	
6	Rows and columns	Pack 2 · Arrays & Equal Addends, Part 1	
7, 8, 10	Add the rows	Pack 2 · Arrays & Equal Addends, Part 2	
13	Draw an array	Pack 2 · Arrays & Equal Addends, Part 4	
14	Add the rows or the columns	Pack 2 · Arrays & Equal Addends, Part 3	
17	Arrays and odd/even	Pack 2 · Arrays & Equal Addends, Part 4 and Pack 1 · Odd & Even Numbers, Part 4	
18	Odd and even totals	Pack 1 · Odd & Even Numbers, Parts 3 and 4	

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