Steady Steps Maths

FREE UNIT TEST · TOPIC 2

FREE SAMPLE · UNIT TEST A

Multiplication & Division Facts

Unit Test A · 40 marks · about 40 minutes

GRADE 3



Common Core 3.OA.B.5–6, 3.OA.C.7

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Name _____ Date _____

UNIT TEST A

Multiplication & Division Facts

40 marks · about 40 minutes · Common Core 3.OA.B.5–6, 3.OA.C.7

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. 8 × 7 = 56. Use this to write the turn-around fact. [1]
   Answer

2. Work out 2 × 3 × 3 [1]
   Answer

3. Work out 7 × 0 and 0 × 8 [1]
   Answer

4. Write a division fact that goes with 6 × 3 = 18. [1]
   Answer

5. Find the missing number: ☐ × 9 = 45 [1]
   Answer

6. Work out 30 ÷ 5. Think: 5 × ☐ = 30 [1]
   Answer

7. Work out 5 × 3 [1]
   Answer

8. Work out 4 × 9 [1]
   Answer

9. Work out 42 ÷ 7 [1]
   Answer

10. Fill in the missing number in the 9 times-table row: 18, 27, ___, 45, 54 [1]
    Answer

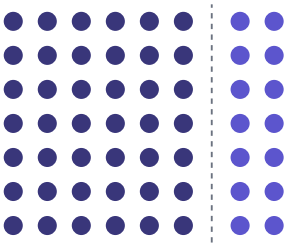
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SECTION B Show your working

Marks are given for your method

11 Use the picture to find 7 × 8. Write the two easier facts and add them. [2]



Answer

12 Write the four facts in the fact family for 8, 9 and 72. [3]

Answer

13 Show two ways to work out 4 × 2 × 2. Do you get the same answer? [3]

Answer

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14 Yara has 48 stickers and puts 6 stickers on each page of a book. [3]
(a) Write a multiplication with ☐ for the number of pages. (b) How many pages are filled? (c) How many stickers fill 2 pages?

Answer

15 Zaid says 8 × 4 = 40. Is this right? Explain how you could check. [2]

Answer

16 Complete the 6 times-table row. [4]
6 ___ 18 24 30 ___ 42 48 ___ 60
Then write one division fact using a number from the row.

Answer

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SECTION C Problem solving

Longer questions with several steps

17 At a sports day there are 6 teams with 4 children in each team. [7]

(a) How many children are there? Write the fact you used.

(b) The children are put into new groups of 3 for a relay. How many relay groups are there?

(c) Each relay group needs 2 cones. How many cones are needed altogether? Show how you know.

Answer

18 (a) Find 7 × 9 by breaking 9 into 5 + 4. Show both easier facts. [6]

(b) Use your answer to find 63 ÷ 7 and 63 ÷ 9.

(c) What is 7 × 9 × 1? Explain.

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	7 × 8 = 56	1	
2	18	1	
3	0 and 0	1	Both needed for the mark.
4	18 ÷ 6 = 3 or 18 ÷ 3 = 6	1	Either fact.
5	5	1	
6	6	1	
7	15	1	
8	36	1	
9	6	1	
10	36	1	
11	e.g. 7 × 6 = 42, 7 × 2 = 14; 42 + 14 = 56	2	1 mark for two easier facts that match a split of the array (any correct split); 1 mark for the total.
12	8 × 9 = 72, 9 × 8 = 72, 72 ÷ 8 = 9, 72 ÷ 9 = 8	3	3 marks for all four; 2 marks for three; 1 mark for two.
13	e.g. (4 × 2) × 2 = 8 × 2 = 16; (2 × 2) × 4 = 4 × 4 = 16; yes	3	1 mark for each correct way (any grouping or order); 1 mark for “yes, the same”.
14	(a) 6 × ☐ = 48 (or ☐ × 6 = 48) (b) 8 pages (c) 12	3	1 mark each part.
15	No, 8 × 4 = 32. e.g. count on in 8s, or use 8 × 3 = 24 and add 8.	2	1 mark for “no” with the right answer; 1 mark for a sensible check.
16	12, 36, 54; e.g. 12 ÷ 6 = 2	4	1 mark for each missing number (3); 1 mark for any correct division fact.
17	(a) 6 × 4 = 24 (b) 24 ÷ 3 = 8 (c) 8 × 2 = 16	7	(a) 2 marks: 1 for the fact. (b) 3 marks: 1 for choosing ÷, 1 for the fact, 1 for the answer. (c) 2 marks: 1 for multiplying. Follow through.
18	(a) 7 × 5 = 35, 7 × 4 = 28; 63 (b) 9 and 7 (c) 63: multiplying by 1 does not change the number	6	(a) 3 marks: 1 for each easier fact, 1 for the total. (b) 2 marks. (c) 1 mark with the reason.

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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	Turn-around facts	Pack 1 · Multiplication Properties, Part 1	
2, 13	Multiplying three numbers	Pack 1 · Multiplication Properties, Part 2	
3	Multiplying by 1 and 0	Pack 1 · Multiplication Properties, Part 4	
4, 12	Fact families	Pack 2 · Division as an Unknown Factor, Part 1	
5	Missing factors	Pack 2 · Division as an Unknown Factor, Part 3	
6	Divide by thinking ×	Pack 2 · Division as an Unknown Factor, Part 2	
7	Twos, fives and tens	Pack 3 · Facts to 100, Part 1	
8	Threes, fours and sixes	Pack 3 · Facts to 100, Part 2	
9	Sevens, eights and nines	Pack 3 · Facts to 100, Part 3	
10, 16	Times-table rows	Pack 3 · Facts to 100, Part 4	
11	Breaking apart	Pack 1 · Multiplication Properties, Part 3	
14	Division word problems	Pack 2 · Division as an Unknown Factor, Part 4	
15	Facts to 100	Pack 3 · Facts to 100, Parts 2–3	
17	Using × and ÷ together	Pack 2 · Division as an Unknown Factor, Part 4 and Pack 3 · Facts to 100, Parts 1–4	
18	Breaking apart and fact families	Pack 1 · Multiplication Properties, Parts 3–4 and Pack 2 · Division as an Unknown Factor, Part 1	

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