Steady Steps Maths

FREE UNIT TEST · TOPIC 3

FREE SAMPLE · UNIT TEST A

Multiplying & Dividing Whole Numbers

Unit Test A · 40 marks · about 40 minutes

GRADE 5



Common Core 5.NBT.B.5–6

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Name _____ Date _____

UNIT TEST A Multiplying & Dividing Whole Numbers

40 marks · about 40 minutes · Common Core 5.NBT.B.5–6

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 Work out 508 × 4. [1]

Answer

2 Work out 61 × 39. [1]

Answer

3 Work out 523 × 38. [1]

Answer

4 Estimate 73 × 41 by rounding each number to the nearest ten. [1]

Answer

5 Work out 5,400 ÷ 60. [1]

Answer

6 What number times 70 equals 3,500? [1]

Answer

7 Work out 480 ÷ 16. [1]

Answer

8 Work out 943 ÷ 23. [1]

Answer

9 Use multiplication to check: is 650 ÷ 26 = 26 correct? Write yes or no. [1]

Answer

10 Work out 2,383 × 8. [1]

Answer

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SECTION B Show your working

Marks are given for your method

11 Work out 1,862 × 47. Show your working. [2]

Answer

12 (a) Estimate 604 × 47 by rounding 604 to the nearest hundred and 47 to the nearest ten. (b) Work out the exact answer. (c) Is your answer sensible? Why? [3]

Answer

13 Use an area model or partial quotients to work out 2,632 ÷ 28. [3]

Answer

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14 Mia worked out 69 × 29 like this: 69 × 9 = 621, 69 × 2 = 138, 621 + 138 = 759. [3]
(a) What mistake did Mia make? (b) Work out the correct answer.

Answer

15 A hall has 816 seats in 24 equal rows. How many seats are in each row? Check your answer by multiplying. [2]

Answer

16 A farm packs eggs in trays of 36. One week it fills 174 trays. [4]
(a) How many eggs is that? (b) The eggs are then put into boxes of 12. How many boxes are filled?

Answer

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SECTION C Problem solving

Longer questions with several steps

17 A school orders 14 boxes of pencils. Each box holds 120 pencils. [7]

(a) How many pencils does the school get?

(b) The pencils are shared equally between 30 classes. How many pencils does each class get?

(c) Show how to check your answer to (b) by multiplying.

Answer

18 A rectangular field is 132 m long and 32 m wide. [6]

(a) Estimate the area by rounding both numbers to the nearest ten.

(b) Work out the exact area. (c) The field is split into 24 plots with equal areas. What is the area of each plot?

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	2,032	1	
2	2,379	1	
3	19,874	1	
4	70 × 40 = 2,800	1	
5	90	1	
6	50	1	
7	30	1	
8	41	1	
9	no (26 × 26 = 676)	1	
10	19,064	1	
11	87,514	2	1 mark for correct partial products (1,862 × 7 and 1,862 × 40); 1 mark for the answer.
12	(a) 600 × 50 = 30,000 (b) 28,388 (c) yes, it is close to the estimate	3	1 mark each part.
13	94	3	1 mark for a correct first chunk (e.g. 28 × 90 = 2,520); 1 mark for the rest; 1 mark for the answer.
14	(a) The 2 is worth 20, so she should have worked out 69 × 20 = 1,380. (b) 2,001	3	(a) 1 mark. (b) 2 marks: 1 for 69 × 20.
15	34 seats (34 × 24 = 816)	2	1 mark for the answer; 1 mark for the check.
16	(a) 6,264 (b) 522	4	(a) 2 marks: 1 for a correct method. (b) 2 marks: 1 for a correct method.
17	(a) 1,680 (b) 56 (c) 56 × 30 = 1,680	7	(a) 2 marks: 1 for a correct method. (b) 3 marks: 2 for a correct division method (area model, partial quotients), 1 for the answer. (c) 2 marks.
18	(a) 130 × 30 = 3,900 m² (b) 4,224 m² (c) 176 m²	6	(a) 1 mark. (b) 2 marks: 1 for a correct method. (c) 3 marks: 2 for a correct division method, 1 for the answer.

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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, 10	Multiplying by a 1-digit number	Pack 1 · Multi-Digit Multiplication, Part 1	
2, 14	2-digit × 2-digit	Pack 1 · Multi-Digit Multiplication, Part 2	
3, 11	3-digit × 2-digit	Pack 1 · Multi-Digit Multiplication, Part 3	
4, 12	Estimating	Pack 1 · Multi-Digit Multiplication, Part 4	
5, 6	Dividing with multiples of 10	Pack 2 · Dividing by Two-Digit Numbers, Part 1	
7	Area models	Pack 2 · Dividing by Two-Digit Numbers, Part 2	
8	Partial quotients	Pack 2 · Dividing by Two-Digit Numbers, Part 3	
9	Check by multiplying	Pack 2 · Dividing by Two-Digit Numbers, Part 4	
13	Area models and partial quotients	Pack 2 · Dividing by Two-Digit Numbers, Parts 2 and 3	
15	Dividing and checking	Pack 2 · Dividing by Two-Digit Numbers, Parts 3 and 4	
16	Multiplying and dividing in context	Pack 1 · Multi-Digit Multiplication, Part 3 and Pack 2 · Dividing by Two-Digit Numbers, Part 3	
17	Multiplying, dividing and checking	Pack 1 · Multi-Digit Multiplication, Part 3 and Pack 2 · Dividing by Two-Digit Numbers, Parts 3 and 4	
18	Area: multiplying and dividing	Pack 1 · Multi-Digit Multiplication, Parts 3 and 4 and Pack 2 · Dividing by Two-Digit Numbers, Part 3	

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