Steady Steps Maths

FREE UNIT TEST · TOPIC 4

FREE SAMPLE · UNIT TEST A

Whole-Number Operations

Unit Test A · 40 marks · about 40 minutes

GRADE 4



Common Core 4.NBT.B.4–6

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UNIT TEST A

Whole-Number Operations

40 marks · about 40 minutes · Common Core 4.NBT.B.4–6

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 67,569 + 26,473. [1]

Answer

2. Work out 61,095 – 14,935. [1]

Answer

3. Work out 9,000 – 7,456. [1]

Answer

4. Work out 7 × 300. [1]

Answer

5. Work out 8 × 419. [1]

Answer

6. Work out 90 × 80. [1]

Answer

7. Work out 13 × 29. [1]

Answer

8. Work out 4,800 ÷ 6. [1]

Answer

9. Work out 480 ÷ 5. [1]

Answer

10. Work out 188 ÷ 6. Give the remainder. [1]

Answer

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SECTION B Show your working

Marks are given for your method

11 Work out 42,000 − 28,667. Then check your answer by adding. [2]

Answer

12 Use an area model or partial products to work out 7 × 4,639. Show each partial product. [3]

Answer

13 Use an area model to work out 24 × 65. Show the four partial products. [3]

Answer

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14 Use partial quotients or an area model to work out 1,796 ÷ 4. [3]

Answer

15 Work out 1,185 ÷ 4. Then check your answer by multiplying and adding the remainder. [2]

Answer

16 Tamer worked out 42 × 39 like this: 40 × 30 = 1,200, 2 × 9 = 18, 1,200 + 18 = 1,218. [4]
(a) Which two partial products did Tamer forget? (b) Work out the correct answer.

Answer

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SECTION C Problem solving

Longer questions with several steps

17 A shop orders 20 boxes of juice. Each box holds 36 cartons. [7]

(a) How many cartons does the shop order?

(b) It sells 522 cartons on the first day. How many cartons are left?

(c) The cartons that are left are put into packs of 7. How many full packs can be made? How many cartons are left over?

Answer _____

18 A cinema sold 2,476 tickets on Friday and 3,762 tickets on Saturday. [6]

(a) How many tickets were sold on the two days altogether?

(b) Each ticket on Friday cost 7. How much money did the Friday tickets make?

(c) On Saturday there were 6 shows with the same number of tickets sold for each show. How many tickets were sold for each show?

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	94,042	1	
2	46,160	1	
3	1,544	1	
4	2,100	1	
5	3,352	1	
6	7,200	1	
7	377	1	
8	800	1	
9	96	1	
10	31 r 2	1	
11	13,333; check: 13,333 + 28,667 = 42,000	2	1 mark for the answer; 1 mark for a correct check by adding.
12	28,000 + 4,200 + 210 + 63 = 32,473	3	1 mark for splitting 4,639 by place value; 1 mark for the partial products; 1 mark for the answer.
13	1,200 + 100 + 240 + 20 = 1,560	3	1 mark for splitting both numbers into tens and ones; 1 mark for all four partial products; 1 mark for the answer.
14	449	3	1 mark for a correct first chunk (e.g. 4 × 400 = 1,600); 1 mark for the rest of the method; 1 mark for the answer.
15	296 r 1; check: 4 × 296 + 1 = 1,185	2	1 mark for the answer; 1 mark for the check.
16	(a) 40 × 9 = 360 and 2 × 30 = 60 (b) 1,638	4	(a) 2 marks: 1 for each missing partial product. (b) 2 marks: 1 for adding all four partial products.
17	(a) 720 (b) 198 (c) 28 packs, 2 left over	7	(a) 2 marks: 1 for a place-value method (e.g. partial products). (b) 2 marks: 1 for subtracting 522 from (a). (c) 3 marks: 1 for dividing (b) by 7, 1 for the number of packs, 1 for the remainder. Follow through.
18	(a) 6,238 (b) 17,332 (c) 627	6	(a) 2 marks: 1 for adding. (b) 2 marks: 1 for partial products (7 × 2,476). (c) 2 marks: 1 for a correct division method.

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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	Adding with regrouping	Pack 1 · Adding & Subtracting, Part 1	
2	Subtracting with regrouping	Pack 1 · Adding & Subtracting, Part 2	
3	Subtracting across zeros	Pack 1 · Adding & Subtracting, Part 3	
4	Multiples of 10, 100 and 1,000	Pack 2 · Multiplying by a One-Digit Number, Part 1	
5, 12	Area models and partial products	Pack 2 · Multiplying by a One-Digit Number, Parts 2 and 3	
6	Multiplying multiples of ten	Pack 3 · Multiplying Two-Digit Numbers, Part 1	
7, 13, 16	2-digit × 2-digit	Pack 3 · Multiplying Two-Digit Numbers, Parts 2 and 3	
8	Dividing multiples of 10, 100, 1,000	Pack 4 · Dividing by a One-Digit Number, Part 1	
9, 14	Area models and partial quotients	Pack 4 · Dividing by a One-Digit Number, Part 2	
10, 15	Remainders and checking	Pack 4 · Dividing by a One-Digit Number, Parts 3 and 4	
11	Checking and missing numbers	Pack 1 · Adding & Subtracting, Part 4	
17	Multiply, subtract, then divide	Pack 3 · Multiplying Two-Digit Numbers, Part 4 and Pack 4 · Dividing by a One-Digit Number, Part 3	
18	Add, multiply and divide	Pack 2 · Multiplying by a One-Digit Number, Part 4 and Pack 4 · Dividing by a One-Digit Number, Part 4	

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