Steady Steps Maths

FREE UNIT TEST · TOPIC 1

FREE SAMPLE · UNIT TEST A

Multiplication Comparisons & Word Problems

Unit Test A · 40 marks · about 40 minutes

GRADE 4



Common Core 4.OA.A.1–3

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Name _____ Date _____

UNIT TEST A

Multiplication Comparisons & Word Problems

40 marks · about 40 minutes · Common Core 4.OA.A.1–3

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. Write 42 = 6 × 7 as a comparison sentence using "times as many". [1]

   Answer

2. Write an equation for: "15 is 3 times as many as 5." [1]

   Answer

3. Box A has 64 beads. Box B has 4 times as many. How many beads in B? [1]

   Answer

4. A train is 84 m long, 7 times as long as a bus. How long is the bus? [1]

   Answer

5. A puppy weighs 5 kg. A grown dog weighs 25 kg. The dog is how many times as heavy? [1]

   Answer

6. Omar has 32 marbles. Noor has 3 **more** than Omar. How many has Noor? [1]

   Answer

7. Find the value of n: n = 8 × 24 − 148 [1]

   Answer

8. 49 children go to a park. Each car takes 8. How many cars are needed? [1]

   Answer

9. Estimate 492 + 278 by rounding each number to the nearest hundred. [1]

   Answer

10. Find the value of p: p = (50 − 6) ÷ 4 [1]

    Answer

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SECTION B Show your working

Marks are given for your method

11 Fares has 12 stickers. Sana has 3 times as many. Use the bar model to write an equation with a letter for the unknown, then solve it. [2]

Fares	12			
Sana	12	12	12	**?**

Answer

12 Rana has 13 shells. Lina has 4 more shells than Rana. Zaid has 4 times as many shells as Rana. [3]

(a) How many shells does Lina have? (b) How many shells does Zaid have?

(c) How many more shells does Zaid have than Lina?

Answer

13 A baker packs 70 buns into boxes of 8. [3]

(a) How many boxes can she fill? (b) How many buns are left over?

(c) How many boxes does she need to pack **all** the buns?

Answer

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14 Bilal buys 6 packs of 24 balloons. 55 balloons burst. Write an equation with a letter for the number of balloons left, then solve it. [3]

Answer

15 Rami says 33 × 3 = 990. Round 33 to the nearest ten to estimate the answer. Is Rami's answer reasonable? Explain. [2]

Answer

16 A big water tank holds 500 litres. That is 4 times as much as a small tank. (a) How much does the small tank hold? (b) How many more litres does the big tank hold than the small tank? [4]

Answer

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SECTION C Problem solving

Longer questions with several steps

17 3 classes of 23 children go on a school trip with 7 adults. [7]

(a) How many people go on the trip altogether?

(b) Each bus holds 40 people. How many buses are needed? Explain what you did with the remainder.

(c) Each bus costs 150 for the day. What is the total cost of the buses?

Answer

18 A farm shop sold 74 jars of honey in week 1. In week 2 it sold 6 times as many as in week 1. In week 3 it sold 53 fewer than in week 2. [6]

(a) How many jars were sold in week 2? (b) How many jars were sold in week 3? (c) How many jars were sold in the three weeks altogether?

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	e.g. 42 is 6 times as many as 7 (or 7 times as many as 6)	1	
2	15 = 3 × 5	1	
3	256 beads	1	
4	12 m (84 ÷ 7)	1	
5	5 times (25 ÷ 5)	1	
6	35 (32 + 3: “more than” means add)	1	
7	n = 44	1	
8	7 cars (6 r 1: one more car)	1	
9	500 + 300 = 800	1	
10	p = 11	1	
11	s = 3 × 12; s = 36 stickers	2	1 mark for the equation (any letter); 1 mark for the answer.
12	(a) 17 (b) 52 (c) 35	3	1 mark each part: (a) add, (b) multiply.
13	(a) 8 boxes (b) 6 buns (c) 9 boxes	3	1 mark each part (70 ÷ 8 = 8 r 6).
14	b = 6 × 24 − 55; b = 89 balloons	3	1 mark for an equation with a letter; 1 mark for 6 × 24 = 144; 1 mark for the answer.
15	30 × 3 = 90; no, far too big (exact 99)	2	1 mark for the estimate 30 × 3 = 90; 1 mark for “no” with a reason.
16	(a) 125 litres (b) 375 litres	4	(a) 2 marks: 1 for dividing 500 ÷ 4. (b) 2 marks: 1 for subtracting 500 − 125.
17	(a) 76 (b) 76 ÷ 40 = 1 r 36, so 2 buses (c) 300	7	(a) 2 marks: 1 for 3 × 23 = 69. (b) 3 marks: 1 for dividing, 1 for rounding up, 1 for the explanation. (c) 2 marks: 1 for multiplying by (b). Follow through.
18	(a) 444 (b) 391 (c) 909	6	(a) 2 marks: 1 for multiplying (6 × 74). (b) 2 marks: 1 for subtracting 53 from (a). (c) 2 marks: 1 for adding all three weeks. Follow through.

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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, 2	Comparison sentences	Pack 1 · Comparing with Multiplication, Part 1	
3, 4, 5, 16	Comparison word problems	Pack 1 · Comparing with Multiplication, Part 3	
6, 12	Times as many or more than?	Pack 1 · Comparing with Multiplication, Part 4	
7, 10, 14	Two-step problems	Pack 2 · Multi-Step Word Problems, Part 1	
8, 13	Problems with remainders	Pack 2 · Multi-Step Word Problems, Part 2	
9, 15	Estimate to check	Pack 2 · Multi-Step Word Problems, Part 3	
11	Bar models	Pack 1 · Comparing with Multiplication, Part 2	
17	Multi-step problems with remainders	Pack 2 · Multi-Step Word Problems, Parts 1, 2 and 4	
18	“Times as many” and “fewer than” in one problem	Pack 1 · Comparing with Multiplication, Part 4 and Pack 2 · Multi-Step Word Problems, Part 4	

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