Steady Steps Maths

FREE UNIT TEST · TOPIC 1

FREE SAMPLE · UNIT TEST A

Expressions

Unit Test A · 40 marks · about 40 minutes

GRADE 5



Common Core 5.OA.A.1–2

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Name _____ Date _____

UNIT TEST A

Expressions

40 marks · about 40 minutes · Common Core 5.OA.A.1–2

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 15 + 8 × 6. [1]

Answer

2 Work out 47 − 6 × 3. [1]

Answer

3 Work out (12 + 5) × 7. [1]

Answer

4 Work out (45 − 13) ÷ 4. [1]

Answer

5 Work out 3 × [4 + 6 × 2] − 4. [1]

Answer

6 Put parentheses in so the statement is true: 2 + 5 × 5 = 35 [1]

Answer

7 Write an expression for “add 9 and 7, then multiply by 7”. [1]

Answer

8 Write an expression for “subtract 14 from 41, then divide by 3”. [1]

Answer

9 Write in words: 9 × (43 + 28) [1]

Answer

10 Without calculating: 4 × (3829 + 448) is how many times as large as 3829 + 448? [1]

Answer

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SECTION B Show your working

Marks are given for your method

11 Work out {2 × [10 + (4 × 4)]} − 3. Show each step. [2]

Answer

12 Write an expression for “multiply 7 by 10, then subtract 13”. Then work it out. [2]

Answer

13 Look at A = (376 + 298) × 12 and B = (376 + 298) × 4. Do not work them out. [3]
(a) Which is larger? (b) How many times as large is it? Explain how you know.

Answer

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14 Put parentheses into 2 + 5 × 2 + 3 to make it equal: (a) 17 (b) 27 [3]

Answer

15 Lina buys 3 packs of 6 juice boxes. Her class drinks 11 of them. [3]
Write one expression for the number of juice boxes left, then work it out.

Answer

16 Omar says 12 + 3 × 4 = 60. [4]
(a) What mistake has Omar made? (b) Work out the correct answer. (c) Write the expression that does equal 60.

Answer

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SECTION C Problem solving

Longer questions with several steps

17 A school takes 5 buses on a trip. Each bus carries 28 children, and 6 adults go too. [7]

(a) Write an expression for the total number of people. (b) Work it out.

(c) Every person pays 5 for a ticket. Write an expression for the total cost, using your answer to (a) in parentheses. (d) Work out the total cost.

Answer

18 Use the expression 19 − 6 + 3 × 4. [6]

(a) Work it out. (b) Put in one pair of parentheses to make the largest answer you can, and work it out.

(c) Write the expression from (b) in words.

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	63	1	Multiply first.
2	29	1	
3	119	1	
4	8	1	
5	44	1	Inside the brackets: × first.
6	(2 + 5) × 5 = 35	1	
7	(9 + 7) × 7	1	Also accept 7 × (9 + 7).
8	(41 − 14) ÷ 3	1	Not (14 − 41).
9	9 times the sum of 43 and 28	1	Accept any wording that adds first, then multiplies by 9.
10	4 times	1	
11	49	2	1 mark for 4 × 4 = 16 and 10 + 16 = 26; 1 mark for the answer.
12	7 × 10 − 13 = 57	2	1 mark for the expression; 1 mark for the value.
13	(a) A (b) 3 times, because 12 is 3 times 4 and the sum is the same	3	(a) 1 mark. (b) 1 mark for the number, 1 mark for the reason.
14	(a) (2 + 5) × 2 + 3 (b) 2 + 5 × (2 + 3)	3	(a) 1 mark. (b) 1 mark. 1 more mark for showing a check of either value.
15	3 × 6 − 11 = 7	3	2 marks for the expression (1 if the parts are right but in the wrong order); 1 mark for the answer.
16	(a) He added first; × must be done before +. (b) 24 (c) (12 + 3) × 4	4	(a) 1 mark. (b) 2 marks: 1 for working out 3 × 4 = 12 first. (c) 1 mark.
17	(a) 5 × 28 + 6 (b) 146 (c) (5 × 28 + 6) × 5 (d) 730	7	(a) 2 marks. (b) 1 mark. (c) 2 marks: 1 for the parentheses, 1 for × 5. (d) 2 marks: 1 for a correct method.
18	(a) 25 (b) (19 − 6 + 3) × 4 = 64 (c) e.g. “take 6 from 19, add 3, then multiply by 4”	6	(a) 2 (1 for × first). (b) 2 (1 for the parentheses). (c) 2 (1 for the order of steps).

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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	× and ÷ before + and −	Pack 1 · Grouping Symbols, Part 1	
3, 4	Parentheses first	Pack 1 · Grouping Symbols, Part 2	
5, 11	Brackets and braces	Pack 1 · Grouping Symbols, Part 3	
6, 14	Put in the parentheses	Pack 1 · Grouping Symbols, Part 4	
7, 8, 12	Words to expressions	Pack 2 · Writing & Interpreting Expressions, Part 1	
9	Expressions to words	Pack 2 · Writing & Interpreting Expressions, Part 2	
10, 13	Compare without calculating	Pack 2 · Writing & Interpreting Expressions, Part 3	
15	Expressions for situations	Pack 2 · Writing & Interpreting Expressions, Part 4	
16	× and ÷ before + and −	Pack 1 · Grouping Symbols, Parts 1 and 2	
17	Expressions for situations	Pack 2 · Writing & Interpreting Expressions, Part 4 and Pack 1 · Grouping Symbols, Part 2	
18	Parentheses and words	Pack 1 · Grouping Symbols, Part 4 and Pack 2 · Writing & Interpreting Expressions, Part 2	

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