Steady Steps Maths

FREE UNIT TEST · TOPIC 4

FREE SAMPLE · UNIT TEST A

The Equal Sign & Missing Numbers

Unit Test A · 40 marks · about 40 minutes

GRADE 1



Common Core 1.OA.D.7, 1.OA.D.8

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UNIT TEST A

The Equal Sign & Missing Numbers

40 marks · about 40 minutes · Common Core 1.OA.D.7–8

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.
- A grown-up may read each question aloud, but should not help with the maths.

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. True or false? 6 = 6 + 1 [1]
   Answer
2. True or false? 13 = 8 + 5 [1]
   Answer
3. True or false? 3 + 8 = 7 + 5 [1]
   Answer
4. True or false? 17 − 9 = 8 [1]
   Answer
5. 8 + ☐ = 16 [1]
   Answer
6. ☐ + 9 = 13 [1]
   Answer
7. 14 − ☐ = 5 [1]
   Answer
8. ☐ − 6 = 4 [1]
   Answer
9. 11 = 2 + ☐ [1]
   Answer
10. 3 + 7 = ☐ + 5 [1]
    Answer

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SECTION B Show your working

Marks are given for your method

11 Write + or − in each circle to make it true. [2]

(a) 4 ○ 5 = 9 (b) 14 ○ 7 = 7

12 Write T (true) or F (false) for each. [3]

(a) 14 − 6 = 9

(b) 3 + 4 = 4 + 3

(c) 15 = 7 + 8

13 Make it true: 4 + 7 = □ + 6. Show how you found the missing number. [3]

Answer

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14 Adam had 9 shells. Adam found some more. Now Adam has 18. Write an equation with ☐ for the shells found. Then solve it. [3]

Answer

15 Mia fills in $5 + 3 = \square + 2$ with 8. Is Mia right? Explain. What should it be? [2]

Answer

16 Find each missing number. [4]

(a) $\square + 9 = 15$ (b) $13 - \square = 7$

(c) $12 = 3 + \square$ (d) $10 + 4 = 12 + \square$

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SECTION C Problem solving

Longer questions with several steps

17 [7]

(a) Is 8 + 4 = 12 true or false?
(b) Is 12 = 8 + 4 true or false? What does the = sign mean?
(c) Find the missing number: 8 + 4 = ☐ + 6
(d) Write your own true equation with an adding sum on **both** sides of the = sign.

18 [6]

Ivy has 16 cards. Ava has 9 cards. Ava gets some more cards, and now they have the same number.
(a) Write an equation with ☐ for the cards Ava gets.
(b) Solve it.
(c) Check your 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	false	1	
2	true	1	
3	false	1	
4	true	1	
5	8	1	
6	4	1	
7	9	1	
8	10	1	
9	9	1	
10	5	1	
11	(a) + (b) −	2	1 mark each.
12	(a) F (b) T (c) T	3	1 mark each.
13	4 + 7 = 11, 5 + 6 = 11, so ☐ = 5	3	1 mark for working out 4 + 7 = 11; 1 mark for a method for the box; 1 mark for 5.
14	9 + ☐ = 18 (or 18 − 9 = ☐); ☐ = 9	3	1 mark for the numbers in the right places; 1 mark for ☐ in the right place; 1 mark for the answer. Accept a subtraction equation.
15	No: both sides must be the same. 5 + 3 = 8, so ☐ + 2 must also be 8: ☐ = 6.	2	1 mark for "no" with a reason (both sides must be equal); 1 mark for the correct number.
16	(a) 6 (b) 6 (c) 9 (d) 2	4	1 mark each.
17	(a) true (b) true; = means both sides are the same amount (c) 6 (d) any true equation with a sum on each side, e.g. 6 + 2 = 5 + 3	7	(a) 1 mark. (b) 2 marks: 1 for true, 1 for "both sides are the same / equal" (not "the answer comes next"). (c) 2 marks: 1 for a method, 1 for the answer. (d) 2 marks for a true equation with a sum on each side; 1 mark if only one side is a sum.
18	(a) 9 + ☐ = 16 (or 16 − 9 = ☐) (b) ☐ = 7 (c) 9 + 7 = 16	6	(a) 2 marks: 1 for the right numbers, 1 for ☐ in the right place. (b) 2 marks: 1 for a method, 1 for the answer. (c) 2 marks for a correct check. 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	What = means	Pack 1 · True or False Equations, Part 1	
3	Work out both sides	Pack 1 · True or False Equations, Part 3	
4	True or false?	Pack 1 · True or False Equations, Part 2	
5, 6, 14	Missing number in adding	Pack 2 · Finding the Missing Number, Part 1	
7, 8	Missing number in taking away	Pack 2 · Finding the Missing Number, Part 2	
9	The answer comes first	Pack 2 · Finding the Missing Number, Part 3	
10, 13	The same on both sides	Pack 2 · Finding the Missing Number, Part 4	
11	Which sign?	Pack 1 · True or False Equations, Part 4	
12	True or false?	Pack 1 · True or False Equations, Parts 2 and 3	
15	What = means	Pack 1 · True or False Equations, Part 1 and Pack 2 · Finding the Missing Number, Part 4	
16	Missing numbers	Pack 2 · Finding the Missing Number, Parts 1–4	
17	What = means	Pack 1 · True or False Equations, Parts 1–3 and Pack 2 · Finding the Missing Number, Part 4	
18	Missing number stories	Pack 2 · Finding the Missing Number, Parts 1 and 4	

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