Steady Steps Maths

FREE UNIT TEST · TOPIC 2

FREE SAMPLE · UNIT TEST A

Place Value & Decimals

Unit Test A · 40 marks · about 40 minutes

GRADE 5



Common Core 5.NBT.A.1–4

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UNIT TEST A

Place Value & Decimals

40 marks · about 40 minutes · Common Core 5.NBT.A.1–4

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 What is the value of the digit 3 in 7,623.18? [1]

Answer

2 In 33.3, the 3 in the ones place is how many times the value of the 3 in the tenths place? [1]

Answer

3 What is $\frac{1}{10}$ of 5,300? [1]

Answer

4 Write 10^4 as a whole number. [1]

Answer

5 Work out 8.9 × 100. [1]

Answer

6 Work out 65 ÷ 1,000. [1]

Answer

7 Write as a decimal: five and seventy-two thousandths. [1]

Answer

8 Write <, > or = in the box: 0.56 ☐ 0.506 [1]

Answer

9 Round 1.88 to the nearest whole number. [1]

Answer

10 Round 9.653 to the nearest hundredth. [1]

Answer

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SECTION B Show your working

Marks are given for your method

11 Write 99.405 in expanded form, using fractions such as $\frac{1}{10}$. [2]

Answer

12 Write these numbers in order, from smallest to largest: [2]

6.026 6.2 6.62 6.6 6.602

Answer

13 Work out: (a) 2.32×10^2 (b) $581 \div 10^3$ (c) 0.7×10^3 [3]

Answer

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14 Round 84.699 to: (a) the nearest whole number (b) the nearest tenth (c) the nearest hundredth [3]

Answer

15 Sam says 2.09 × 10 = 2.090 because "you add a zero". [3]
(a) Is Sam right? (b) Work out 2.09 × 10. (c) Explain what really happens to the digits.

Answer

16 Look at the number 555.5. [4]
(a) Write the value of each 5, from left to right.
(b) The 5 in the tens place is ____ times the value of the 5 in the ones place.
(c) The 5 in the tens place is ____ of the value of the 5 in the hundreds place.

Answer

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SECTION C Problem solving

Longer questions with several steps

17 Five children ran a race. Their times in seconds were: [7]
Aya 11.407 · Ben 11.17 · Cora 11.21 · Dan 11.86 · Eli 11.96
(a) Put the children in order, from fastest (smallest time) to slowest. (b) Round the fastest time to the nearest tenth.
(c) Which two children have the same time when rounded to the nearest tenth?
(d) Write Aya's time in words.

Answer

18 One marble has a mass of 2.6 g. [6]
(a) What is the mass of 10 marbles? (b) 100 marbles? (c) 1,000 marbles?
(d) Describe the pattern in your answers.
(e) A pack of 1,000 sheets of card has a mass of 8,292 g. What is the mass of one sheet?

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	3	1	
2	10 times	1	
3	530	1	
4	10,000	1	
5	890	1	
6	0.065	1	
7	5.072	1	
8	0.56 > 0.506	1	
9	2	1	
10	9.65	1	Keep a 0 in the hundredths place if needed (e.g. 4.30).
11	$9 \times 10 + 9 \times 1 + 4 \times (1/10) + 5 \times (1/1000)$	2	1 mark for the whole-number part; 1 mark for the decimal part (no term needed for the 0 hundredths).
12	6.026, 6.2, 6.6, 6.602, 6.62	2	2 marks all correct; 1 mark with one pair swapped.
13	(a) 232 (b) 0.581 (c) 700	3	1 mark each.
14	(a) 85 (b) 84.7 (c) 84.70	3	1 mark each. Answers keep their place: (c) must show hundredths, so a final 0 stays (e.g. 4.30).
15	(a) No (b) 20.9 (c) Each digit moves one place to the left (becomes 10 times as large).	3	1 mark each part. For (c) accept "the decimal point moves one place to the right".
16	(a) 500, 50, 5, 0.5 (b) 10 (c) $1/10$	4	(a) 2 marks (1 mark with 3 correct). (b) 1 mark. (c) 1 mark.
17	(a) Ben, Cora, Aya, Dan, Eli (b) 11.2 (c) Ben and Cora (11.2) (d) eleven and four hundred seven thousandths	7	(a) 2 marks (1 mark with one pair swapped). (b) 1 mark. (c) 2 marks: 1 for rounding the times. (d) 2 marks: 1 for the whole number, 1 for the thousandths.
18	(a) 26 g (b) 260 g (c) 2,600 g (d) each time the digits move one place left (10 times as large) (e) 8.292 g	6	(a), (b), (c) 1 mark each. (d) 1 mark. (e) 2 marks: 1 for ÷ 1,000.

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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	Value of a digit	Pack 1 · Place Value Patterns, Part 1	
2	10 times as much	Pack 1 · Place Value Patterns, Part 2	
3	1/10 of a number	Pack 1 · Place Value Patterns, Part 3	
4	Powers of 10	Pack 2 · Powers of 10, Part 1	
5, 15	Decimals × powers of 10	Pack 2 · Powers of 10, Part 3	
6	Dividing by powers of 10	Pack 2 · Powers of 10, Part 4	
7	Reading and writing decimals	Pack 3 · Reading, Writing & Comparing Decimals, Part 1	
8	Comparing decimals	Pack 3 · Reading, Writing & Comparing Decimals, Part 3	
9	Nearest whole number	Pack 4 · Rounding Decimals, Part 1	
10	Nearest hundredth	Pack 4 · Rounding Decimals, Part 3	
11	Expanded form	Pack 3 · Reading, Writing & Comparing Decimals, Part 2	
12	Ordering decimals	Pack 3 · Reading, Writing & Comparing Decimals, Part 4	
13, 18	Multiplying and dividing by powers of 10	Pack 2 · Powers of 10, Parts 3 and 4	
14	Rounding to any place	Pack 4 · Rounding Decimals, Part 4	
16	10 times and 1/10	Pack 1 · Place Value Patterns, Parts 2 and 3	
17	Comparing, rounding and writing decimals	Pack 3 · Reading, Writing & Comparing Decimals, Parts 1 and 4 and Pack 4 · Rounding Decimals, Part 2	

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