Steady Steps Maths

FREE UNIT TEST · TOPIC 4

FREE SAMPLE · UNIT TEST A

Decimal Operations

Unit Test A · 40 marks · about 40 minutes

GRADE 5



Common Core 5.NBT.B.7

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Name _____ Date _____

UNIT TEST A

Decimal Operations

40 marks · about 40 minutes · Common Core 5.NBT.B.7

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 6.95 + 2.4. [1]

Answer

2 Work out 13 − 3.59. [1]

Answer

3 Find the missing number: 3.92 + ☐ = 7 [1]

Answer

4 Estimate 4.84 + 2.87 by rounding each number to the nearest whole number. [1]

Answer

5 Work out 4.09 × 7. [1]

Answer

6 Work out 0.3 × 0.8. [1]

Answer

7 31 × 25 = 775. Use this to write the answer to 3.1 × 2.5. [1]

Answer

8 Work out 22.8 ÷ 6. [1]

Answer

9 Work out 3 ÷ 0.1. [1]

Answer

10 Work out 4 ÷ 0.4. [1]

Answer

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SECTION B Show your working

Marks are given for your method

11 Work out 14.2 − 6.76. Show your working. [2]

Answer

12 Work out 1.5 × 2.7. Show your working. [3]

Answer

13 (a) Work out 10.32 ÷ 8. (b) Check your answer by multiplying. [3]

Answer

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14 Ali says 0.2 × 0.2 = 0.4. [3]
(a) Is he right? (b) Explain, using tenths of tenths or a hundred grid. (c) Write the correct answer.

Answer

15 A large drinks dispenser holds 6 litres of juice. How many cups holding 0.2 litres each can be filled? [2]

Answer

16 A rope is 8.6 m long. Huda cuts off 3 pieces, each 1.33 m long. How much rope is left? [4]

Answer

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SECTION C Problem solving

Longer questions with several steps

17 Price list: notebook 1.85, pen 2.93, bag 2.85. [7]
Ravi buys 3 notebooks, 1 pen and 1 bag.
(a) How much do the 3 notebooks cost? (b) What is the total cost? (c) He pays with 20.00. How much change does he get?
(d) Round each price to the nearest whole number and estimate the total. Is your answer to (b) sensible?

Answer

18 One lap of a track is 0.5 km. [6]
(a) How far is 5 laps? (b) How many laps make 8 km?
(c) Nadia runs 1.96 km on Monday and 1.6 km on Tuesday. How much further did she run on the longer day?

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	9.35	1	
2	9.41	1	
3	3.08	1	
4	5 + 3 = 8	1	
5	28.63	1	
6	0.24	1	
7	7.75	1	
8	3.8	1	
9	30	1	
10	10	1	
11	7.44	2	1 mark for lining up the decimal points with a placeholder zero; 1 mark for the answer.
12	4.05	3	1 mark for 15 × 27 = 405; 1 mark for 2 decimal places; 1 mark for the answer.
13	(a) 1.29 (b) 1.29 × 8 = 10.32	3	(a) 2 marks: 1 for a correct method. (b) 1 mark.
14	(a) No (b) tenths × tenths gives hundredths: 2 tenths of 2 tenths is 4 hundredths (c) 0.04	3	1 mark each part.
15	30 cups	2	1 mark for 6 ÷ 0.2; 1 mark for the answer.
16	4.61 m	4	1 mark for 1.33 × 3 = 3.99; 1 mark for subtracting; 1 mark for lining up the points; 1 mark for the answer.
17	(a) 5.55 (b) 11.33 (c) 8.67 (d) 3 × 2 + 3 + 3 = 12, close to (b), so yes	7	(a) 2 marks: 1 for a correct method. (b) 2 marks. (c) 2 marks: 1 for subtracting from 20. (d) 1 mark.
18	(a) 2.5 km (b) 16 laps (c) 0.36 km	6	(a) 2 marks. (b) 2 marks: 1 for 8 ÷ 0.5. (c) 2 marks: 1 for subtracting.

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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 decimals	Pack 1 · Adding & Subtracting Decimals, Part 1	
2, 11	Subtracting decimals	Pack 1 · Adding & Subtracting Decimals, Part 2	
3, 4	Missing numbers and estimating	Pack 1 · Adding & Subtracting Decimals, Part 4	
5	Decimal × whole number	Pack 2 · Multiplying Decimals, Part 1	
6, 14	Tenths × tenths	Pack 2 · Multiplying Decimals, Part 2	
7	Placing the decimal point	Pack 2 · Multiplying Decimals, Part 4	
8	Decimal ÷ whole number	Pack 3 · Dividing Decimals, Part 1	
9, 15	Whole number ÷ decimal	Pack 3 · Dividing Decimals, Part 2	
10	Decimal ÷ decimal	Pack 3 · Dividing Decimals, Part 3	
12	Decimal × decimal	Pack 2 · Multiplying Decimals, Part 3	
13	Dividing and checking	Pack 3 · Dividing Decimals, Parts 1 and 4	
16	Multi-step decimal problems	Pack 2 · Multiplying Decimals, Part 1 and Pack 1 · Adding & Subtracting Decimals, Part 2	
17	Decimal problems with money	Pack 2 · Multiplying Decimals, Part 1 and Pack 1 · Adding & Subtracting Decimals, Parts 1, 2 and 4	
18	Multiplying, dividing and subtracting decimals	Pack 2 · Multiplying Decimals, Part 1, Pack 3 · Dividing Decimals, Part 2 and Pack 1 · Adding & Subtracting Decimals, Part 2	

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