Steady Steps Maths

FREE UNIT TEST · TOPIC 4

FREE SAMPLE · UNIT TEST A

Division & Decimals

Unit Test A · 40 marks · about 40 minutes

GRADE 6



Common Core 6.NS.B.2–3

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UNIT TEST A

Division & Decimals

40 marks · about 40 minutes · Common Core 6.NS.B.2–3

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 Work out 2,170 ÷ 5. [1]

Answer

2 Work out 18.96 + 8.4. [1]

Answer

3 Work out 30 − 7.53. [1]

Answer

4 Work out 14.44 × 10. [1]

Answer

5 Work out 3.9 × 3. [1]

Answer

6 Work out 0.4 × 0.9. [1]

Answer

7 Work out 669.5 ÷ 10. [1]

Answer

8 Work out 14.76 ÷ 4. [1]

Answer

9 You know 75 × 18 = 1,350. Work out 7.5 × 1.8. [1]

Answer

10 Round each number to the nearest whole number to estimate 21.09 + 22.8. [1]

Answer

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SECTION B Show your working

Marks are given for your method

11 Work out 1,560 ÷ 26. Show your working. [3]

Answer

12 475 pupils go on a trip. Each coach holds 52 pupils. How many coaches are needed? Explain your answer. [3]

Answer

13 Work out 28.7 + 11.9 − 6.524. [2]

Answer

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14 Work out 10.92 × 6.8. Show your working. [3]

Answer

15 Work out 17.6 ÷ 0.4. Show your working. [3]

Answer

16 Work out 3 ÷ 4. Write your answer as a decimal. [3]

Answer

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SECTION C Problem solving

Longer questions with several steps

17 Laila buys a notebook for 6.68, a pen for 3.08 and a ruler for 9.86. She pays with 20.00. [7]

(a) How much does she spend?

(b) How much change does she get?

(c) How much would 4 pens cost?

Answer

18 A machine puts 5.5 litres of juice into bottles every hour. [6]

(a) How much juice does it put into bottles in 5.5 hours?

(b) The juice is poured into 0.25 litre cups. How many cups is that?

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	434	1	
2	27.36	1	
3	22.47	1	
4	144.4	1	
5	11.7	1	
6	0.36	1	
7	66.95	1	
8	3.69	1	
9	13.5	1	
10	about 44 (21 + 23)	1	Accept any sensible estimate within 1.
11	60	3	1 mark for setting out long division; 1 mark for a correct first step; 1 mark for the answer.
12	10 coaches (9 r 7)	3	1 mark for 475 ÷ 52; 1 mark for 9 r 7; 1 mark for rounding up to 10 with a reason.
13	34.076	2	1 mark for lining up the decimal points correctly; 1 mark for the answer.
14	74.256	3	1 mark for multiplying without the decimal points (1092 × 68); 1 mark for counting decimal places; 1 mark for the answer.
15	44	3	1 mark for multiplying both numbers by 10; 1 mark for the division; 1 mark for the answer.
16	0.75	3	1 mark for adding zeros after the decimal point; 1 mark for a correct method; 1 mark for the answer.
17	(a) 19.62 (b) 0.38 (c) 12.32	7	(a) 3: 1 for lining up points, 1 for method, 1 for the answer. (b) 2: 1 for subtracting from the amount paid, 1 for the answer. (c) 2: 1 for pen price × 4, 1 for the answer.
18	(a) 30.25 L (b) 121 cups	6	(a) 3: 1 for multiplying, 1 for decimal places, 1 for the answer. (b) 3: 1 for ÷ 0.25 (or × 4), 1 for method, 1 for the answer.

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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	Dividing by a 1-digit number	Pack 1 · Long Division, Part 1	
2	Adding decimals	Pack 2 · Adding & Subtracting Decimals, Part 1	
3	Subtracting from a whole number	Pack 2 · Adding & Subtracting Decimals, Part 2	
4	Multiplying by 10, 100, 1000	Pack 3 · Multiplying Decimals, Part 2	
5	Decimal × whole number	Pack 3 · Multiplying Decimals, Part 1	
6, 14	Decimal × decimal	Pack 3 · Multiplying Decimals, Part 3	
7	Dividing by 10 and 100	Pack 4 · Dividing Decimals, Part 2	
8	Decimal ÷ whole number	Pack 4 · Dividing Decimals, Part 1	
9	Placing the decimal point	Pack 3 · Multiplying Decimals, Part 4	
10	Estimating	Pack 2 · Adding & Subtracting Decimals, Part 3	
11	Dividing by a 2-digit number	Pack 1 · Long Division, Part 2	
12	Making sense of remainders	Pack 1 · Long Division, Part 4	
13	Adding and subtracting decimals	Pack 2 · Adding & Subtracting Decimals, Part 1 and Part 2	
15	Dividing by a decimal	Pack 4 · Dividing Decimals, Part 3	
16	Adding zeros to keep dividing	Pack 4 · Dividing Decimals, Part 4	
17	Decimals in money problems	Pack 2 · Adding & Subtracting Decimals, Part 1 and Pack 3 · Multiplying Decimals, Part 1	
18	Multiplying and dividing decimals	Pack 3 · Multiplying Decimals, Part 3 and Pack 4 · Dividing Decimals, Part 3	

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