Steady Steps Maths

FREE UNIT TEST · TOPIC 8

FREE SAMPLE · UNIT TEST A

Decimals

Unit Test A · 40 marks · about 40 minutes

GRADE 4



Common Core 4.NF.C.5–7

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Name _____ Date _____

UNIT TEST A

Decimals

40 marks · about 40 minutes · Common Core 4.NF.C.5–7

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 Find the missing number: $\frac{5}{10} = \frac{\square}{100}$ [1]

Answer

2 Complete: $\frac{72}{100} = \frac{\square}{10} + \frac{\square}{100}$ [1]

Answer

3 Work out $\frac{3}{10} + \frac{1}{100}$. [1]

Answer

4 Write $\frac{1}{100}$ as a decimal. [1]

Answer

5 Write $7\frac{1}{10}$ as a decimal. [1]

Answer

6 Write 0.98 as a fraction. [1]

Answer

7 A carton of milk holds 0.13 litre. Write this as a fraction of a litre. [1]

Answer

8 Write <, > or = : 1.8 ☐ 1.9 [1]

Answer

9 Write <, > or = : 0.29 ☐ 0.92 [1]

Answer

10 Write <, > or = : 0.3 ☐ 0.32 [1]

Answer

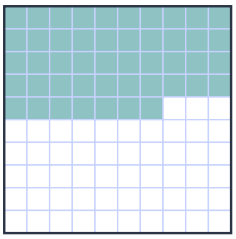
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SECTION B Show your working

Marks are given for your method

11 What part of the hundred grid is shaded? [2]
(a) Write it as a fraction. (b) Write it as a decimal.



Answer

12 Look at the number line. [3]
(a) What decimal is at A? (b) What decimal is at B? (c) Write < or > : A ☐ B



Answer

13 (a) Order these decimals from least to greatest: 0.98, 0.95, 0.97, 0.3 [3]
(b) Which of them are greater than 0.5?

Answer

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14 Karim says 0.24 is greater than 0.3 because 24 is greater than 3. [3]
(a) Is Karim right? (b) Explain using hundredths. (c) Write a decimal that is between 0.24 and 0.3.

Answer

15 Write $1 + \frac{3}{10} + \frac{8}{100}$ (a) as a decimal (b) as a mixed number. [2]

Answer

16 Find the missing numbers. [4]

(a) $\frac{6}{10} + \frac{\square}{100} = \frac{69}{100}$ (b) $\frac{\square}{10} + \frac{4}{100} = \frac{64}{100}$

(c) $0.58 = \frac{\square}{100}$ (d) $6.6 = 6\frac{\square}{10}$

Answer

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SECTION C Problem solving

Longer questions with several steps

17 Four children do the long jump: Dana 2.2 m, Nora 2.32 m, Sami 2.91 m, Lina 2.94 m. [7]

(a) Write Nora's jump as a mixed number. (b) Order the jumps from longest to shortest.

(c) Sara jumps $2 + \frac{3}{10} + \frac{4}{100}$ m. Write Sara's jump as a decimal.

(d) Does Sara jump further than the winner of the four? Explain.

Answer

18 In Maya's garden, $\frac{4}{10}$ of the ground is grass and $\frac{25}{100}$ is flower beds. The rest is vegetables. [6]

(a) What fraction of the garden is grass and flower beds together? (b) Write your answer to (a) as a decimal.

(c) Is that more or less than half of the garden? (d) What fraction of the garden is vegetables?

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. Accept equivalent fractions and mixed numbers unless a form is asked for.

Q	Answer	Marks	How to award the marks
1	50	1	
2	$\frac{7}{10} + \frac{2}{100}$	1	
3	$\frac{31}{100}$	1	
4	0.01	1	
5	7.1	1	
6	$\frac{98}{100}$	1	
7	$\frac{13}{100}$ litre	1	
8	1.8 < 1.9	1	
9	0.29 < 0.92	1	
10	0.3 < 0.32 (0.3 = 0.30)	1	
11	(a) $\frac{47}{100}$ (b) 0.47	2	1 mark each. Accept $\frac{4}{10} + \frac{7}{100}$ in (a).
12	(a) 2.87 (b) 2.81 (c) 2.87 > 2.81	3	1 mark each part.
13	(a) 0.3, 0.95, 0.97, 0.98 (b) 0.95, 0.97, 0.98	3	(a) 2 marks; 1 mark if one pair is swapped. (b) 1 mark for all of them and no others.
14	(a) No (b) 0.3 = 0.30 = $\frac{30}{100}$, and 30 hundredths > 24 hundredths (c) e.g. 0.25 or 0.26	3	1 mark each part. (c): accept any decimal greater than 0.24 and less than 0.3.
15	(a) 1.38 (b) $1\frac{38}{100}$	2	1 mark each.
16	(a) 9 (b) 6 (c) 58 (d) 6	4	1 mark each.
17	(a) $2\frac{32}{100}$ m (b) Lina 2.94, Sami 2.91, Nora 2.32, Dana 2.2 (c) 2.34 m (d) No: 2.34 < 2.94	7	(a) 1 mark. (b) 2 marks; 1 mark if one pair is swapped. (c) 2 marks: 1 for the tenths and hundredths in the right places, 1 for the answer. (d) 2 marks: 1 for comparing, 1 for the answer.
18	(a) $\frac{65}{100}$ (b) 0.65 (c) more (0.65 > 0.50) (d) $\frac{35}{100}$	6	(a) 2 marks: 1 for $\frac{4}{10} = \frac{40}{100}$, 1 for the answer. (b) 1 mark. (c) 1 mark. (d) 2 marks: 1 for $1 = \frac{100}{100}$, 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	Tenths as hundredths	Pack 1 · Tenths & Hundredths, Part 1	
2	Hundredths on a grid	Pack 1 · Tenths & Hundredths, Part 2	
3	Adding tenths and hundredths	Pack 1 · Tenths & Hundredths, Part 3	
4, 5	Fractions to decimals	Pack 2 · Decimals on a Number Line, Part 1	
6	Decimals to fractions	Pack 2 · Decimals on a Number Line, Part 2	
7	Decimals in measurement	Pack 2 · Decimals on a Number Line, Part 4	
8	Comparing tenths	Pack 3 · Comparing Decimals, Part 1	
9	Comparing hundredths	Pack 3 · Comparing Decimals, Part 2	
10, 14	Tenths and hundredths	Pack 3 · Comparing Decimals, Part 3	
11	Hundredths on a grid	Pack 1 · Tenths & Hundredths, Part 2 and Pack 2 · Decimals on a Number Line, Part 1	
12	Decimals on a number line	Pack 2 · Decimals on a Number Line, Part 3 and Pack 3 · Comparing Decimals, Part 2	
13	Ordering decimals	Pack 3 · Comparing Decimals, Part 4	
15	Adding tenths and hundredths	Pack 1 · Tenths & Hundredths, Part 3 and Pack 2 · Decimals on a Number Line, Part 1	
16	Missing numbers	Pack 1 · Tenths & Hundredths, Part 4 and Pack 2 · Decimals on a Number Line, Part 2	
17	Comparing decimals in context	Pack 2 · Decimals on a Number Line, Parts 1 and 2 and Pack 3 · Comparing Decimals, Parts 2 to 4	
18	Tenths and hundredths in context	Pack 1 · Tenths & Hundredths, Parts 3 and 4 and Pack 2 · Decimals on a Number Line, Part 1	

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