

WA4MNADE1

Understanding number

Core + Challenge

Comparing & Ordering Decimals

I can compare and order decimals to hundredths.

Name: _____ Date: _____ Score: / 53

Key idea

Comparing decimals: line up the decimal points and compare digits from left to right, starting with the tenths place.

A trailing zero doesn't change a decimal's value (e.g. $0.6 = 0.60$).

E.g. **0.45** vs **0.5**: compare tenths first — 4 tenths is less than 5 tenths, so $0.45 < 0.5$.

A Fluency *practise the skill*

/16 marks

Compare using $<$, $>$ or $=$.

1. 0.4 ____ 0.45 _____

2. 0.7 ____ 0.07 _____

3. 0.6 ____ 0.60 _____

4. 0.25 ____ 0.3 _____

5. 0.52 ____ 0.5 _____

6. 0.09 ____ 0.9 _____

7. 0.81 ____ 0.18 _____

8. 0.4 ____ 0.40 _____

9. 0.33 ____ 0.3 _____

10. 0.06 ____ 0.6 _____

11. 0.75 ____ 0.57 _____

12. 0.2 ____ 0.19 _____

13. 0.45 ____ 0.5 _____

14. 0.08 ____ 0.1 _____

15. 0.63 ____ 0.6 _____

16. 0.9 ____ 0.90 _____

B Core *apply the skill to problems*

/21 marks

1

Four students' race times (in seconds, as decimals) are 12.4, 12.04, 12.45, 12.3. Order them from fastest (smallest) to slowest.

[3 marks]

Answer: _____

2

A jug holds 0.65 L of water and a bottle holds 0.6 L. (a) Which holds more?
(b) How much more, in litres?

[4 marks]

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Answer: _____

3

Compare the decimals 0.7 and 0.70. Are they equal? Explain why or why not.

[3 marks]

Answer: _____

4

Three students' long jump distances (metres) are 2.35, 2.5, 2.08. (a) Order from shortest to longest. (b) Who jumped the furthest, the student who jumped 2.5m or the one who jumped 2.35m?

[4 marks]

Answer: _____

5

A ribbon costs \$0.45 per metre and another costs \$0.4 per metre. Which ribbon is cheaper per metre?

[3 marks]

Answer: _____

6

Four test scores (as decimals of 1) are 0.85, 0.8, 0.95, 0.09. (a) Order from lowest to highest. (b) Which score is the lowest?

[4 marks]

Answer: _____

C**Reasoning** *explain, justify and check***/9 marks****1**

Explain why 0.6 and 0.60 represent the same value.

[2 marks]

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2

A student says 0.45 is smaller than 0.5 because 45 is bigger than 5. Explain why the student's reasoning is incorrect and give the correct comparison.

[2 marks]

3

Explain the method for comparing two decimals by place value, using 0.38 and 0.4 as an example.

[2 marks]

4

A student orders 0.9, 0.09, 0.19 as 0.09, 0.9, 0.19, thinking more digits means a bigger number. Explain the error and give the correct order from smallest to largest.

[3 marks]

D

Challenge *multi-step and problem-solving*

/7 marks

1

Find a decimal with two decimal places that is between 0.4 and 0.5.

[2 marks]

Answer: _____

2

Order these from smallest to largest: 0.5, 0.05, 0.55, 0.15.

[2 marks]

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Answer: _____

3

A number has two decimal places, is greater than 0.6 but less than 0.7, and both digits after the decimal point are the same. What is the number?

[3 marks]

Answer: _____

How did I go?

Fluency ____/16 Core ____/21 Reasoning ____/9 Challenge ____/7 **Total ____/53**

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