

WA4MNAFR1

Fractions and decimals

Core + Challenge

Comparing & Ordering Fractions

I can compare and order fractions with the same and related denominators.

Name: _____ Date: _____ Score: / 53

Key idea

Comparing fractions: if the denominators are the same, compare the numerators directly. If the denominators are different but related, convert to a common denominator first.

E.g. $\frac{1}{3}$ vs $\frac{1}{4}$: convert to twelfths $\rightarrow \frac{4}{12}$ vs $\frac{3}{12}$, so $\frac{1}{3} > \frac{1}{4}$.

A Fluency *practise the skill*

/16 marks

Write $<$, $>$ or $=$ between each pair of fractions.

1. $\frac{2}{5}$ ____ $\frac{3}{5}$ _____

2. $\frac{1}{3}$ ____ $\frac{1}{4}$ _____

3. $\frac{3}{8}$ ____ $\frac{1}{2}$ _____

4. $\frac{2}{3}$ ____ $\frac{4}{6}$ _____

5. $\frac{1}{2}$ ____ $\frac{5}{10}$ _____

6. $\frac{3}{4}$ ____ $\frac{2}{3}$ _____

7. $\frac{1}{6}$ ____ $\frac{1}{3}$ _____

8. $\frac{5}{8}$ ____ $\frac{3}{4}$ _____

9. $\frac{2}{4}$ ____ $\frac{1}{4}$ _____

10. $\frac{7}{10}$ ____ $\frac{3}{5}$ _____

11. $\frac{1}{2}$ ____ $\frac{1}{5}$ _____

12. $\frac{3}{6}$ ____ $\frac{2}{3}$ _____

13. $\frac{4}{5}$ ____ $\frac{7}{10}$ _____

14. $\frac{2}{3}$ ____ $\frac{3}{4}$ _____

15. $\frac{1}{4}$ ____ $\frac{2}{8}$ _____

16. $\frac{3}{10}$ ____ $\frac{1}{4}$ _____

B Core *apply the skill to problems*

/21 marks

- 1 Order these fractions from smallest to largest: $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$.

[3 marks]

Answer: _____

- 2 Two friends eat pizza. Liam eats $\frac{2}{5}$ of a pizza and Zoe eats $\frac{3}{10}$ of the same-sized pizza. Who eats more, and by how much (as a fraction)?

[4 marks]

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Answer: _____

3

Order these fractions from largest to smallest: $\frac{2}{3}$, $\frac{1}{2}$, $\frac{5}{6}$.

[3 marks]

Answer: _____

4

A paint mix uses $\frac{3}{4}$ cup of blue paint and $\frac{5}{8}$ cup of yellow paint. Which colour uses more paint, and by what fraction of a cup?

[4 marks]

Answer: _____

5

Compare $\frac{3}{5}$ and $\frac{7}{10}$. Write which is larger and show your working using a common denominator.

[3 marks]

Answer: _____

6

Three runners complete fractions of a race: Ava completes $\frac{5}{6}$, Ben completes $\frac{3}{4}$, and Cal completes $\frac{7}{12}$. Order the runners from the one who has completed the most to the least.

[4 marks]

Answer: _____

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

Explain why you cannot directly compare the numerators of $\frac{2}{3}$ and $\frac{3}{5}$ without first finding a common denominator.

[2 marks]

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2

A student says that $\frac{1}{8}$ is bigger than $\frac{1}{4}$ because 8 is bigger than 4. Explain why this is incorrect.

[2 marks]

3

Explain how you could compare $\frac{5}{6}$ and $\frac{7}{8}$ without drawing a diagram.

[2 marks]

4

A student says that when ordering fractions with different denominators, you should just order them by their numerators. Is this true? Explain and give an example that supports your answer.

[3 marks]

D

Challenge *multi-step and problem-solving*

/7 marks

1

Find a fraction that lies between $\frac{1}{4}$ and $\frac{1}{2}$.

[2 marks]

Answer: _____

2

Order these four fractions from smallest to largest: $\frac{3}{4}$, $\frac{5}{8}$, $\frac{2}{3}$, $\frac{7}{12}$.

[2 marks]

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Answer: _____**3**

A recipe needs the largest of three ingredient fractions: flour $\frac{5}{6}$ cup, sugar $\frac{7}{9}$ cup, and butter $\frac{3}{4}$ cup. Convert all three to a common denominator and state which ingredient uses the most.

[3 marks]

Answer: _____

How did I go?

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

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