

WA6MNAUN4

Understanding number

Core + Challenge

Comparing and Ordering Fractions

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

Name: _____ Date: _____ Score: _____ / 56

Key idea

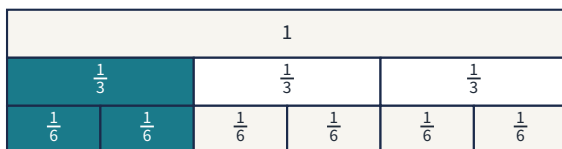
Same denominator: compare the numerators. $\frac{4}{5} > \frac{2}{5}$, because 4 fifths is more than 2 fifths.

Related denominators (like 3 and 6): rename one fraction. $\frac{1}{3} = \frac{2}{6}$, so $\frac{1}{3} < \frac{3}{6}$.

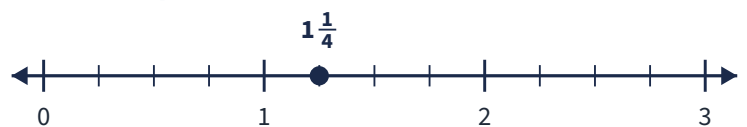
A **mixed numeral** like $1\frac{1}{4}$ has a whole number and a fraction. It is between 1 and 2 on a number line.

To compare mixed numerals, compare the **whole numbers** first, then the fractions.

One third = two sixths



One and a quarter on a number line



A Warm up *shade, compare and mark*

/ 16 marks

Use the bars. Write $<$, $>$ or $=$ in the box. 1 mark each.

1 $\frac{3}{8}$ $\frac{5}{8}$



2 $\frac{2}{3}$ $\frac{5}{6}$



3 $\frac{3}{4}$ $\frac{6}{8}$



4 $\frac{7}{10}$ $\frac{3}{5}$



Write the fraction or mixed numeral at each letter. 1 mark each.



5 A

6 B

7 C

8 D

Circle the **larger** number. 1 mark each.

9 $\frac{4}{9}$ or $\frac{2}{3}$

10 $\frac{7}{12}$ or $\frac{1}{2}$

11 $1\frac{3}{5}$ or $1\frac{7}{10}$

12 $\frac{9}{4}$ or $2\frac{1}{2}$

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Shade the bar to show the fraction. 1 mark each.

13 Shade $\frac{3}{5}$



14 Shade $\frac{3}{4}$



15 Shade $\frac{1}{2}$



16 Shade $\frac{2}{3}$

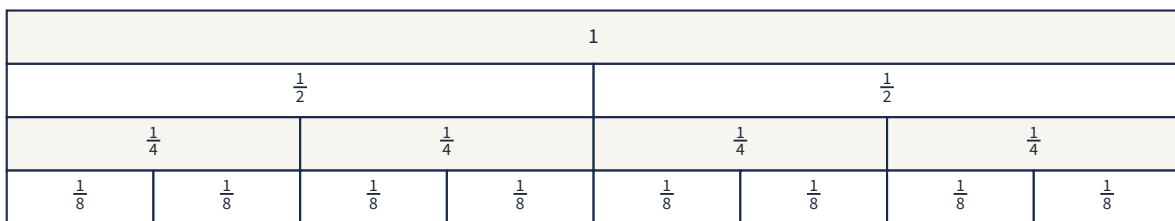


B Practise *use the skill*

/ 21 marks

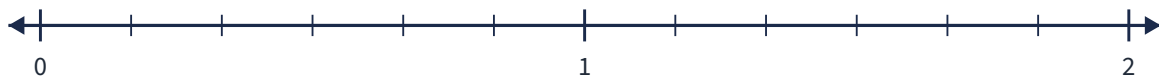
1 Use the fraction wall. **a)** Write these from **smallest to largest**: $\frac{3}{4}$, $\frac{5}{8}$, $\frac{1}{2}$, $\frac{7}{8}$. **b)** [3 marks]

Which fraction in **eighths** is equal to $\frac{3}{4}$?



Answer: _____

2 Mark and label these numbers on the number line: $\frac{1}{3}$, $\frac{5}{6}$, $1\frac{1}{2}$, $1\frac{2}{3}$. Which is the largest? [3 marks]



Answer: _____

3 In a Kings Park fun run, Ava ran $2\frac{3}{4}$ km, Ben ran $2\frac{5}{8}$ km, Chloe ran $2\frac{1}{2}$ km and Dev ran $3\frac{1}{8}$ km. **a)** Mark each runner on the line with their first letter. **b)** Write the names from **shortest to longest** run. **c)** How much further did Ava run than Ben? [3 marks]



Answer: _____

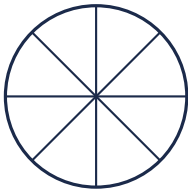
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- 4 Rename one fraction so the denominators match. Then write $<$, $>$ or $=$. [2 marks]

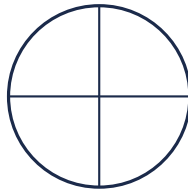
Compare	Rename	$<$, $>$ or $=$
$\frac{3}{5}$ and $\frac{7}{10}$		
$\frac{5}{6}$ and $\frac{2}{3}$		
$\frac{3}{4}$ and $\frac{9}{12}$		
$1\frac{1}{3}$ and $1\frac{5}{9}$		

- 5 Three cakes were left at the school fete: $\frac{5}{8}$ of the chocolate cake, $\frac{3}{4}$ of the carrot cake and $\frac{1}{2}$ of the lemon cake. Shade what is left of each cake. Which cake has the **most** left? [2 marks]

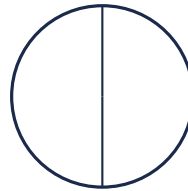
Chocolate



Carrot



Lemon



Answer: _____

- 6 Mia's drink bottle is $\frac{5}{12}$ full, Sam's is $\frac{1}{3}$ full and Leo's is $\frac{1}{2}$ full. Mark each one on the line with its first letter. Whose bottle has the **least** drink? [2 marks]



Answer: _____

- 7 Write a numerator in each box to make the statement true. a) $\frac{\square}{8} > \frac{3}{4}$ and $\frac{\square}{8}$ is less than 1. b) $\frac{1}{2} < \frac{\square}{10} < \frac{4}{5}$ [2 marks]

Answer: _____

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- 8 Write these numbers from **smallest to largest**. Mark them on the line to help. $\frac{7}{4}$, [2 marks]

$1\frac{1}{2}$, $2\frac{1}{8}$, $\frac{15}{8}$



Answer: _____

- 9 Draw a line to join each fraction to the fraction in twelfths that has the **same** value. [2 marks]

$\frac{3}{4}$ •

• $\frac{8}{12}$

$\frac{2}{3}$ •

• $\frac{10}{12}$

$\frac{1}{2}$ •

• $\frac{9}{12}$

$\frac{5}{6}$ •

• $\frac{6}{12}$

C Think it through *explain your thinking*

/ 10 marks

- 1 Kai says, “ $\frac{3}{8}$ is bigger than $\frac{3}{4}$, because 8 is bigger than 4.” Do you agree with Kai? [2 marks]

Explain. You may draw a diagram.

- 2 True or false? “ $\frac{11}{6}$ is bigger than $2\frac{1}{3}$, because 11 is bigger than 2.” Explain. [2 marks]

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- 3 **Always, sometimes or never true?** “A fraction with a bigger denominator is smaller.” Circle one and give examples. [2 marks]
Always / Sometimes / Never

- 4 Which is the **odd one out**? $\frac{3}{4}$, $\frac{6}{8}$, $\frac{9}{12}$, $\frac{5}{6}$. Explain. [2 marks]

- 5 Sort these fractions into the table: $\frac{3}{8}$, $\frac{5}{8}$, $\frac{1}{10}$, $\frac{9}{10}$, $\frac{7}{8}$, $\frac{4}{10}$, $\frac{1}{8}$, $\frac{6}{10}$. How did you decide whether each one was less than $\frac{1}{2}$? [2 marks]

	Eighths	Tenths
Less than $\frac{1}{2}$		
More than $\frac{1}{2}$		

D Challenge *stretch yourself*

/ 9 marks

- 1 Find **all** the fractions with denominator **12** that are **between** $\frac{1}{3}$ and $\frac{3}{4}$. Which of them can also be written with a smaller denominator? [3 marks]

Answer: _____

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- 2 On a number line, **P** is at $1\frac{3}{4}$. **Q** is halfway between P and 3. **R** is the same distance to the **left** of P as Q is to the right. Find Q and R. Use the number line. [3 marks]



Answer: _____

- 3 Write these numbers from **smallest to largest**. Some are equal: show which. $\frac{17}{6}$, [3 marks]
 $2\frac{2}{3}$, $2\frac{1}{6}$, $\frac{8}{3}$, $2\frac{5}{6}$, 3

Answer: _____

How did I go?

Warm up ____ / 16 Practise ____ / 21 Think it through ____ / 10 Challenge ____ / 9 **Total ____ / 56**

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