## Fractions greater than 1

(I) Complete the sentences.


There are 7 fifths altogether.
7 fifths $=\square$ whole $+\square$ fifths

(2) Shade the bar models to represent the fractions.

Complete the number sentences.
a) $\frac{5}{3}$


$$
\frac{5}{3}=\square \text { whole }+2 \text { thirds }=1 \frac{2}{3}
$$

b) $\frac{8}{3}$


$$
\frac{8}{3}=2 \text { wholes }+2 \text { thirds }=2 \frac{2}{3}
$$

c) $\frac{8}{5}$


$$
\frac{8}{5}=\square \text { whole }+3 \text { fifths }=1 \frac{3}{5}
$$

3 Complete the statements.
a) $\frac{12}{2}=\square$ wholes
e) $\frac{15}{3}=5$ wholes
b) $\frac{12}{4}=3$ wholes
f) $\frac{15}{5}=3$ wholes
c) $\frac{12}{6}=\square$ wholes
g) $\frac{15}{4}=3$ wholes + $\square$
d) $\frac{12}{3}=4$ wholes
h) $\frac{15}{2}=7$ wholes + $\square$
4) Whitney bakes 26 muffins. Muffins are packed in boxes of 4
a) How many boxes can Whitney fill?


Whitney can fill $\square$ boxes.
b) How many more muffins does Whitney need to fill another box?

Whitney needs 2 muffins to fill another box.
Explain how you know.
She will fill 6 boxes with 2 left oner so another
2 are needed to fill the severth box
How does writing $\frac{26}{4}$ help you to answer this?
(5) Write $<$, $>$ or $=$ to complete the statements.
a) 2 wholes and 3 quarters
 5 quarters
b) 2 wholes and 3 quarters
 15 quarters
c) 2 wholes and 3 sixths $=15$ sixths
d) 2 wholes and 3 eighths
 15 eighths
e)

6) Complete the part-whole models.

c)

b)


2 Shade the bar models to represent each improper fraction. Convert the improper fractions to mixed numbers.
${ }^{\circ}{ }^{0}$ why

b) Whall W|Wh




$$
\frac{9}{4}=2 \frac{1}{4}
$$





$$
\frac{11}{4}=2 \frac{3}{4}
$$

"
a) $\frac{10}{2}=5$
e) $\frac{12}{5}=2 \frac{2}{5}$
b) $\frac{10}{3}=3 \frac{1}{3}$
f) $\frac{13}{6}=2 \frac{1}{6}$
c) $\frac{10}{4}=2 \frac{1}{2}$
g) $\frac{13}{7}=1 \frac{6}{7}$
d) $\frac{10}{5}=2$
h) $\frac{31}{8}=3 \frac{7}{8}$

4 Eva has 7 bottles of juice
Each bottle contains half a litre of juice.


How many litres of juice does Eva have altogether?

Write your answer as a mixed number.
(6)

Find the value of $\bigcirc$

$$
\frac{27}{\bigcirc}=\bigcirc \frac{2}{\bigcirc}
$$



Explain why Dexter is incorrect.

$$
O=5
$$

(7) Find two possible values for $t$ and $\Delta$

$$
\frac{30}{\frac{1}{t}}=\Delta \frac{2}{\frac{t}{t}}
$$


(1) Convert the mixed numbers to improper fractions.
a)


$$
2 \frac{3}{4}=\frac{11}{4}
$$

b)


$$
2 \frac{3}{8}=\frac{19}{8}
$$

c)


$$
3 \frac{3}{8}=\frac{27}{8}
$$

(2) Convert the mixed numbers to improper fractions.

Colour the bar models to help you.
"

b)


$$
\text { WhWhMA } \quad 2 \frac{1}{3}=\frac{7}{3}
$$


" Wiviva
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$$
3 \frac{1}{3}=\frac{10}{3}
$$


d)




$$
3 \frac{2}{5}=\frac{17}{5}
$$

$\square$

Convert the mixed numbers to improper fractions.
Write the next conversion in each part
a)
$2 \frac{1}{7}=\frac{15}{7}$ $2 \frac{2}{7}=\frac{16}{7}$

$$
2 \frac{3}{7}=\frac{17}{7}
$$

$$
2 \frac{4}{7}=\frac{18}{7}
$$

$$
\text { c) } \begin{aligned}
5 \frac{1}{2} & =\frac{11}{2} \\
5 \frac{1}{4} & =\frac{21}{4} \\
5 \frac{1}{8} & =\frac{41}{4} \\
5 \frac{1}{16} & =\frac{81}{4}
\end{aligned}
$$

b) $3 \frac{1}{5}=\frac{16}{5}$ $4 \frac{1}{5}=\frac{21}{5}$

$$
5 \frac{1}{5}=\frac{26}{5}
$$

The table shows some possible values of the circle.

$$
6 \frac{1}{5}=\frac{31}{5}
$$

Talk to a partner about any patterns you spot.
(4) Here are 4 whole pizzas and $\frac{3}{5}$ of a pizza.


How many children can have $\frac{1}{5}$ of a pizza?
(6)

$$
\bigcirc \frac{3}{5}=\frac{\triangle}{5}
$$ Use this to find the corresponding value of the triangle.

| $\bigcirc$ | $\Delta$ |
| :---: | :---: |
| 1 | 8 |
| 2 | 13 |
| 4 | 23 |
| 8 | 43 |
| 16 | 83 |
| 17 | 88 |
| 160 | 803 |

## Number sequences

a)

b)

(2) Complete the number lines.

b)

c)

(3) Continue the sequences.
a) $2 \frac{7}{8}, 3 \frac{1}{8}, 3 \frac{3}{8}, 3 \frac{5}{8}, 3 \frac{7}{8}, 4 \frac{1}{8}$
b) $5 \frac{6}{7}, 5 \frac{3}{7}, 5,4 \frac{4}{7}, 4 \frac{1}{7}, 3 \frac{5}{7}$


What is the same and what is different about the sequences in parts b) and c)?
Talk about it with a partner.

4
Match each sequence to its rule.


5 Teddy and Rosie are finding the missing numbers in the sequence.

a)


Do you agree with Teddy? No $\qquad$
Explain your answer.

blank cards because $3 \frac{7}{7}=4$
b) Complete the sequence.

c)


Is Rosie correct? Yes
Explain how you know.
$\frac{4}{8}$ is equivalent to $\frac{1}{2}$ so $3 \frac{4}{8}$ is equivalent to $3 \frac{1}{2}$
d) Which other fractions in the sequence can you find equivalent fractions for?
(6)


Write the rule for Amir's sequence.
Add one third. (Accept subbract one third)

