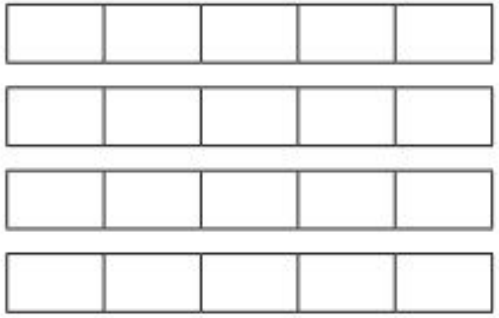
Tuesday

Order fractions

1 a) Shade the bar models to represent the fractions.



$\frac{1}{5}$

$\frac{2}{5}$

$\frac{3}{5}$

$\frac{4}{5}$

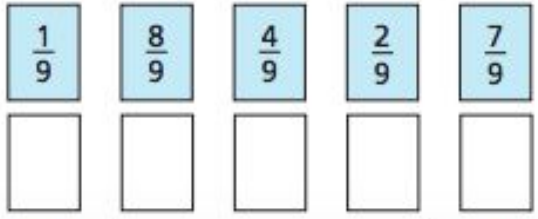
b) What do you notice?

c) Complete the sentence.

numerator | denominator | greater | smaller

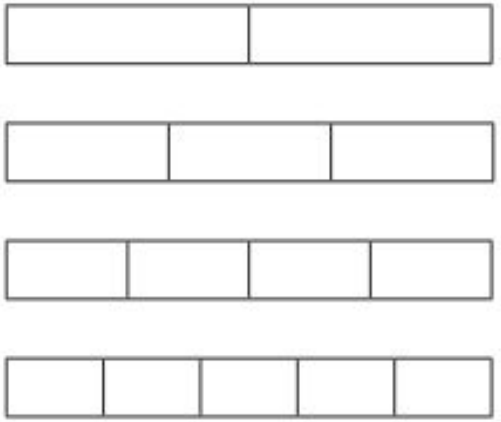
When fractions have the same _____, the _____ the _____ the _____ the fraction.

2 Write the fractions in order, starting with the smallest.



smallest greatest

3 a) Shade the bar models to represent the fractions.



$\frac{1}{2}$

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{1}{5}$

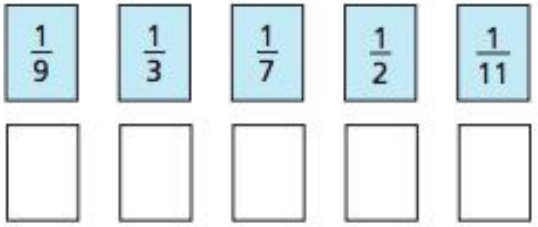
b) What do you notice?

c) Complete the sentence.

numerator | denominator | greater | smaller

When fractions have the same _____, the _____ the _____ the _____ the fraction.

4 Write the fractions in order, starting with the greatest.

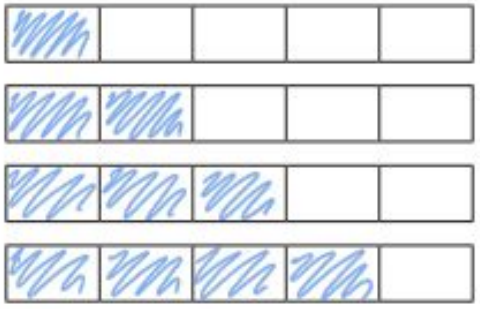


greatest smallest

Order fractions

Tue ANSWERS

1 a) Shade the bar models to represent the fractions.



$\frac{1}{5}$

$\frac{2}{5}$

$\frac{3}{5}$

$\frac{4}{5}$

b) What do you notice?

c) Complete the sentence.

numerator | denominator | greater | smaller

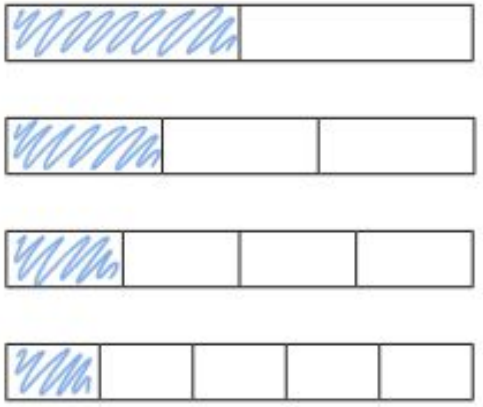
When fractions have the same denominator, the greater the numerator the greater the fraction.

2 Write the fractions in order, starting with the smallest.

$\frac{1}{9}$	$\frac{8}{9}$	$\frac{4}{9}$	$\frac{2}{9}$	$\frac{7}{9}$
$\frac{1}{9}$	$\frac{2}{9}$	$\frac{4}{9}$	$\frac{7}{9}$	$\frac{8}{9}$

smallest ... greatest

3 a) Shade the bar models to represent the fractions.



$\frac{1}{2}$

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{1}{5}$

b) What do you notice?

c) Complete the sentence.

numerator | denominator | greater | smaller

When fractions have the same numerator, the greater the denominator the smaller the fraction.

4 Write the fractions in order, starting with the greatest.

$\frac{1}{9}$	$\frac{1}{3}$	$\frac{1}{7}$	$\frac{1}{2}$	$\frac{1}{11}$
$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{7}$	$\frac{1}{9}$	$\frac{1}{11}$

greatest ... smallest

Add fractions

Wednesday

1 Complete the additions.

Use the bar models to help you.

a)  $\frac{1}{3} + \frac{1}{3} = \square$

b)  $\frac{1}{5} + \frac{1}{5} = \square$

c)  $\frac{1}{5} + \frac{2}{5} = \square$

d)  $\frac{1}{5} + \frac{3}{5} = \square$

2 Shade the circles and complete the additions.

a) 

$\frac{1}{8} + \frac{3}{8} = \square$

b) 

$\frac{5}{8} + \frac{1}{8} = \square$

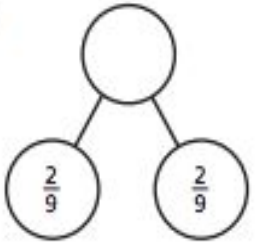
c) 

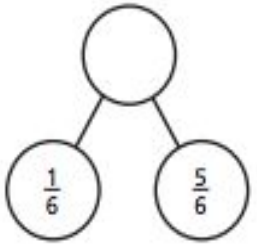
$\frac{3}{8} + \frac{3}{8} = \square$

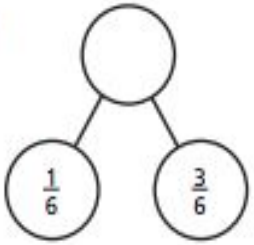
d) 

$\frac{5}{8} + \frac{3}{8} = \square$

3 Complete the part-whole models.

a) 

c) 

b) 

Which part-whole model is the odd one out? _____

Talk about your choice with a partner. Did they choose the same odd one out?

Add fractions

Wednesdays ANSWERS

1 Complete the additions.

Use the bar models to help you.

a) 

$\frac{1}{3} + \frac{1}{3} = \boxed{\frac{2}{3}}$

b) 

$\frac{1}{5} + \frac{1}{5} = \boxed{\frac{2}{5}}$

c) 

$\frac{1}{5} + \frac{2}{5} = \boxed{\frac{3}{5}}$

d) 

$\frac{1}{5} + \frac{3}{5} = \boxed{\frac{4}{5}}$

2 Shade the circles and complete the additions.

a) 

$\frac{1}{8} + \frac{3}{8} = \boxed{\frac{4}{8}}$

b) 

$\frac{5}{8} + \frac{1}{8} = \boxed{\frac{6}{8}}$

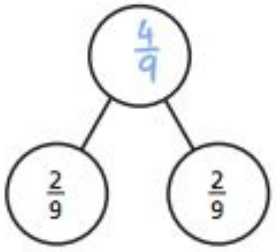
c) 

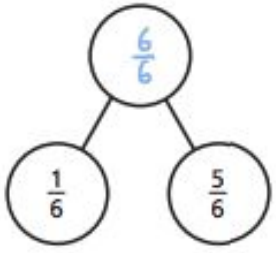
$\frac{3}{8} + \frac{3}{8} = \boxed{\frac{6}{8}}$

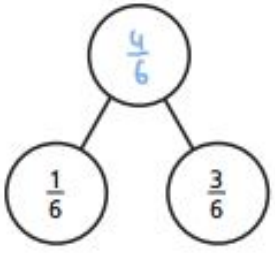
d) 

$\frac{5}{8} + \frac{3}{8} = \boxed{\frac{8}{8}}$

3 Complete the part-whole models.

a) 

c) 

b) 

Which part-whole model is the odd one out? varies

Talk about your choice with a partner. Did they choose the same odd one out?

4 Alex and Huan are eating a cake.

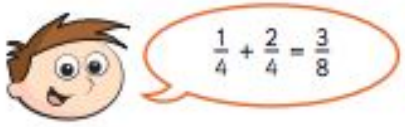
Alex eats $\frac{4}{7}$ of the cake.

Huan eats $\frac{2}{7}$ of the cake.

What fraction of the cake have they eaten altogether?

They have eaten ☐ of the cake altogether.

5 Teddy is adding fractions.



a) Draw a bar model to show that Teddy is wrong.

b) Complete the addition $\frac{1}{4} + \frac{2}{4} =$ ☐

6 Annie has baked 12 muffins.

She puts them into 2 boxes.

What fraction of the muffins could she put in each box?

Complete the table to show different possibilities.

One has been done for you.

Box 1	Box 2
$\frac{1}{12}$	$\frac{11}{12}$

Are there any other possibilities? Talk about it with a partner.

7 Complete the additions.

a) $\frac{3}{8} + \frac{4}{8} =$ ☐

b) $\frac{3}{9} + \frac{4}{9} =$ ☐

c) $\frac{3}{29} + \frac{4}{29} =$ ☐

d) $\frac{3}{103} + \frac{4}{103} =$ ☐

e) $\frac{5}{31} + \frac{9}{31} =$ ☐

f) $\frac{17}{111} + \frac{33}{111} =$ ☐

Thursday ANSWERS

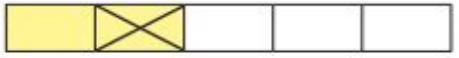
Friday

Subtract fractions

1 Complete the subtractions.

Use the bar models to help you.

a)  $\frac{2}{3} - \frac{1}{3} = \square$

b)  $\frac{2}{5} - \frac{1}{5} = \square$

c)  $\frac{3}{5} - \frac{1}{5} = \square$

d)  $\frac{4}{5} - \frac{1}{5} = \square$

2 Jack has $\frac{7}{8}$ of a chocolate bar.

He eats $\frac{4}{8}$ of the chocolate bar.

What fraction of the chocolate bar does he have left?

3 Complete the subtractions.

Simplify your answers where possible.

a) $\frac{7}{10} - \frac{1}{10}$

b) $\frac{7}{10} - \frac{2}{10}$

c) $\frac{7}{10} - \frac{3}{10}$

d) $\frac{7}{12} - \frac{3}{12}$

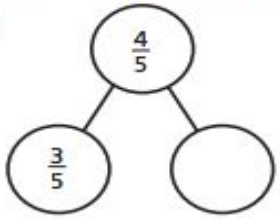
e) $\frac{8}{12} - \frac{4}{12}$

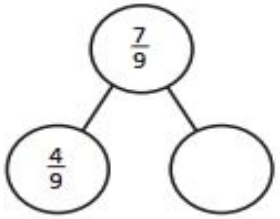
f) $\frac{9}{12} - \frac{5}{12}$

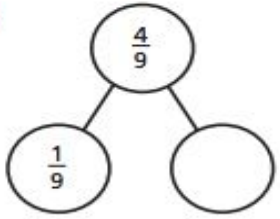
g) $\frac{9}{59} - \frac{5}{59}$

h) $\frac{13}{127} - \frac{9}{127}$

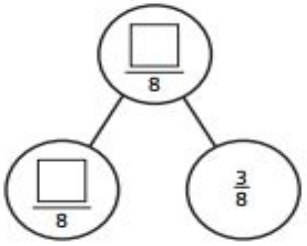
4 Complete the part-whole models.

a) 

c) 

b) 

5 Complete the part-whole model in four different ways.



b) Complete the addition $\frac{1}{4} + \frac{2}{4} = \boxed{\frac{3}{4}}$

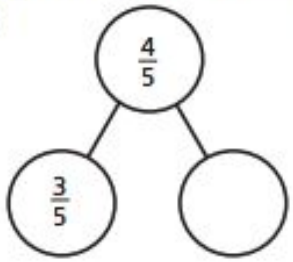
c) $\frac{3}{29} + \frac{4}{29} = \boxed{\frac{7}{29}}$

f) $\frac{17}{111} + \frac{33}{111} = \boxed{\frac{50}{111}}$

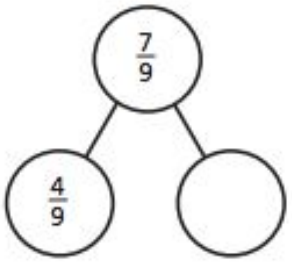
OPTIONAL CHALLENGE

4 Complete the part-whole models.

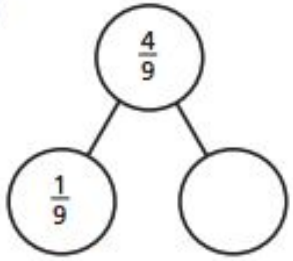
a)



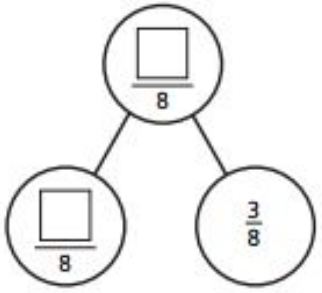
c)



b)



5 Complete the part-whole model in four different ways.



6 Kim has read $\frac{6}{7}$ of her book.

Tom has read $\frac{2}{7}$ of his book.

a) Shade the bar models to represent this information.

Kim

Tom

b) How much more has Kim read than Tom?

7 Write the missing numerators.

a) $\frac{8}{9} - \frac{\square}{9} = \frac{7}{9}$

b) $\frac{5}{11} - \frac{\square}{11} = \frac{4}{11}$

c) $\frac{8}{9} - \frac{\square}{9} = \frac{3}{9} + \frac{4}{9}$

d) $\frac{7}{9} - \frac{5}{9} = \frac{\square}{9} - \frac{4}{9}$

e) $\frac{7}{10} - \frac{5}{10} = \frac{1}{10} + \frac{\square}{10}$

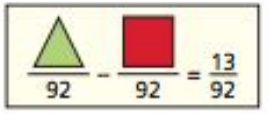
f) $\frac{\square}{4} - \frac{1}{4} = \frac{1}{4} + \frac{1}{4}$

g) $\frac{\square}{5} - \frac{2}{5} = \frac{1}{5} + \frac{2}{5}$

h) $\frac{4}{5} + \frac{1}{5} = \frac{3}{7} - \frac{2}{7} + \frac{\square}{7}$

8 Find three possible values of the square and triangle.

How many other answers can you find?

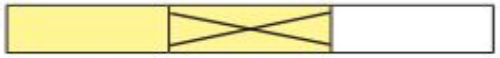


Subtract fractions — Friday ANSWERS

Rose Maths

1 Complete the subtractions.

Use the bar models to help you.

a)  $\frac{2}{3} - \frac{1}{3} = \boxed{\frac{1}{3}}$

b)  $\frac{2}{5} - \frac{1}{5} = \boxed{\frac{1}{5}}$

c)  $\frac{3}{5} - \frac{1}{5} = \boxed{\frac{2}{5}}$

d)  $\frac{4}{5} - \frac{1}{5} = \boxed{\frac{3}{5}}$

2 Jack has $\frac{7}{8}$ of a chocolate bar.

He eats $\frac{4}{8}$ of the chocolate bar.

What fraction of the chocolate bar does he have left?

Jack has $\boxed{\frac{3}{8}}$ of the chocolate bar left.

3 Complete the subtractions.

Simplify your answers where possible.

a) $\frac{7}{10} - \frac{1}{10} = \boxed{\frac{6}{10}} = \boxed{\frac{3}{5}}$

b) $\frac{7}{10} - \frac{2}{10} = \boxed{\frac{5}{10}} = \boxed{\frac{1}{2}}$

c) $\frac{7}{10} - \frac{3}{10} = \boxed{\frac{4}{10}} = \boxed{\frac{2}{5}}$

d) $\frac{7}{12} - \frac{3}{12} = \boxed{\frac{4}{12}} = \boxed{\frac{1}{3}}$

e) $\frac{8}{12} - \frac{4}{12} = \boxed{\frac{4}{12}} = \boxed{\frac{1}{3}}$

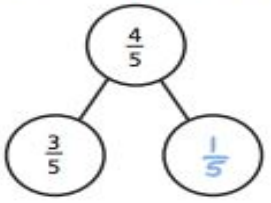
f) $\frac{9}{12} - \frac{5}{12} = \boxed{\frac{4}{12}} = \boxed{\frac{1}{3}}$

g) $\frac{9}{59} - \frac{5}{59} = \boxed{\frac{4}{59}}$

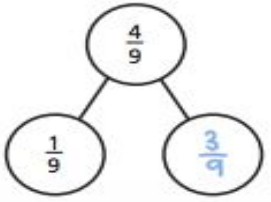
h) $\frac{13}{127} - \frac{9}{127} = \boxed{\frac{4}{127}}$

4 Complete the part-whole models.

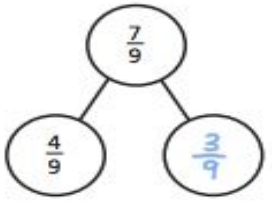
a)



b)



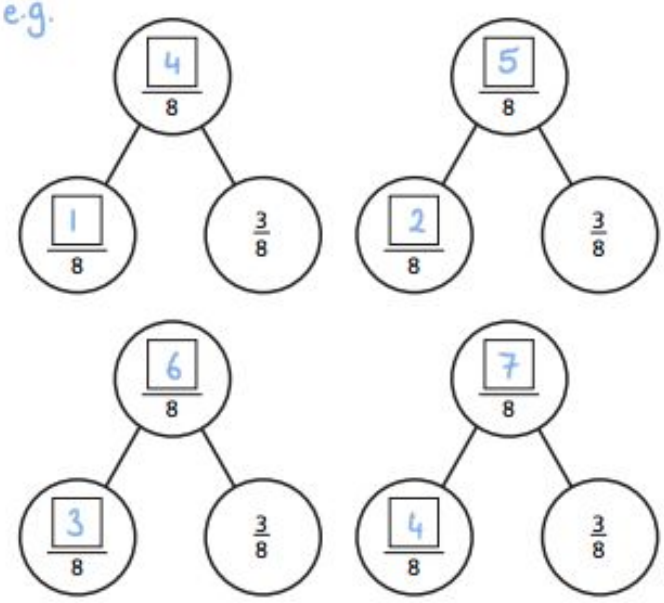
c)



Optional questions ANSWERS

5 Complete the part-whole model in four different ways.

e.g.



6 Kim has read $\frac{6}{7}$ of her book.

Tom has read $\frac{2}{7}$ of his book.

a) Shade the bar models to represent this information.

b) How much more has Kim read than Tom?

Kim has read $\frac{4}{7}$ more of her book than Tom.

7 Write the missing numerators.

a) $\frac{8}{9} - \frac{1}{9} = \frac{7}{9}$

b) $\frac{5}{11} - \frac{1}{11} = \frac{4}{11}$

c) $\frac{8}{9} - \frac{1}{9} = \frac{3}{9} + \frac{4}{9}$

d) $\frac{7}{9} - \frac{5}{9} = \frac{6}{9} - \frac{4}{9}$

e) $\frac{7}{10} - \frac{5}{10} = \frac{1}{10} + \frac{1}{10}$

f) $\frac{3}{4} - \frac{1}{4} = \frac{1}{4} + \frac{1}{4}$

g) $\frac{5}{5} - \frac{2}{5} = \frac{1}{5} + \frac{2}{5}$

h) $\frac{4}{5} + \frac{1}{5} = \frac{3}{7} - \frac{2}{7} + \frac{6}{7}$

8 Complete the table to show three possible values of the square and triangle.

$\frac{\triangle}{92} - \frac{\square}{92} = \frac{13}{92}$

e.g.

△	□
14	1
20	7
30	17

How many other answers can you find?