Year 4 Maths Monday 8.2.21

Fractions

Recall: adding fractions

½ + ½ + ½ =

¼ + ¾ + ¼ =

2/6 + 4/6 + 4/6 =

1/5 + 3/5 + 2/5 =

2/8 + 4/8 + 6/8 =

Can you convert your answers into mixed numbers?

Recall: adding fractions

½ + ½ + ½ = 3/2 or 1 ½

¼ + ¾ + ¼ = 5/4 or 1 ¼

2/6 + 4/6 + 4/6 = 10/6 or 1 4/6

1/5 + 3/5 + 2/5 = 6/5 or 1 1/5

2/8 + 4/8 + 6/8 = 12/8 or 1 4/8

LO: I can subtract fractions

Guided practice:

First	Then	Now
$\frac{\square}{\square}$	$\frac{\square}{\square} - \frac{\square}{\square}$	$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$

I need to use the pictures to fill out the missing fraction amounts.
First I have _____ (Count the pieces we currently have).

Then I took away _____ (count the pieces crossed in the "Then" box).

Now I have _____ (count the remaining pieces of the whole in the "Now" box).

Guided practice: Answers

First	Then	Now
$\frac{4}{5}$	$\frac{4}{5} - \frac{2}{5}$	$\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$

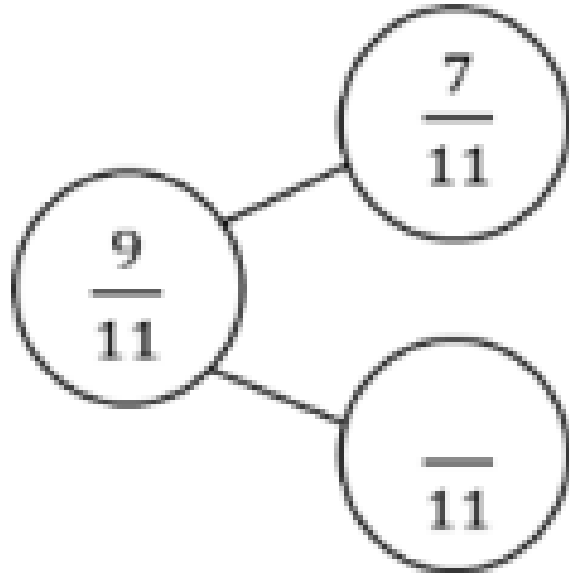I need to use the pictures to fill out the missing fraction amounts.

First I have 4/5

Then I took away 2/5

Now I have 2/5

Because our denominator doesn't change, we could also calculate this as
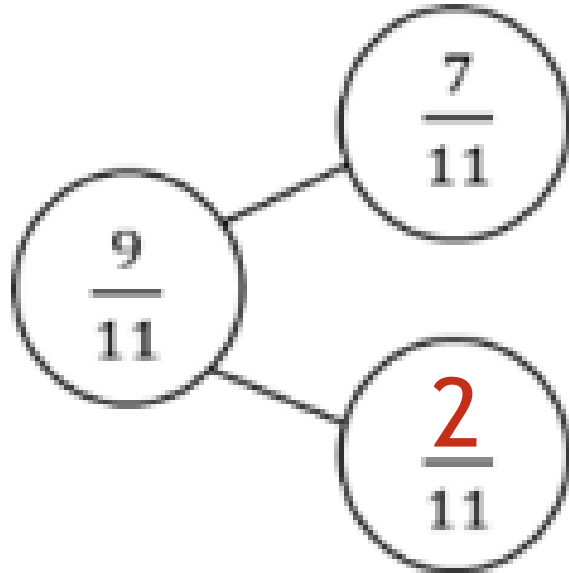4 – 2 = 2 and then return it to a fraction (2/5)

Guided Practice:

Have a look at this part/whole model.

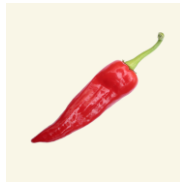What subtraction number sentences can we write using it?

Guided Practice: Answers

(9 – 7 = 2)

9 / 11 – 7 / 11 = 2 / 11

(9 – 2 = 7)

9 / 11 – 2 / 11 = 7 / 11

Intelligent practice:

¾ - ¼ =
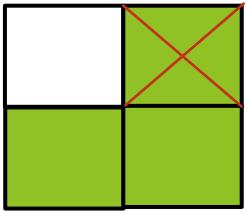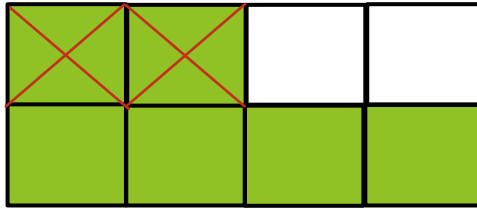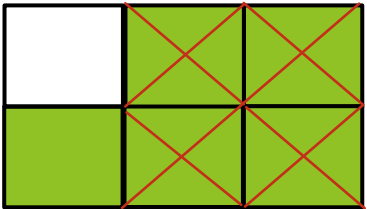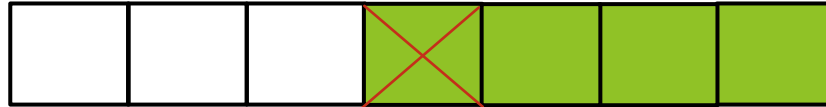
6/8 – 2/8 =

5/6 – 4/6 =

4/7 – 1/7 =

3/5 – 1/5 =

Intelligent practice:
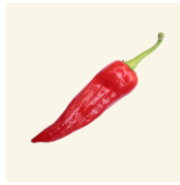
¾ - ¼ = 2/4
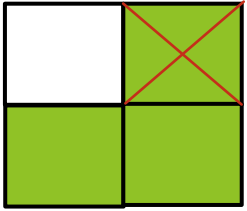
6/8 – 2/8 = 4/8
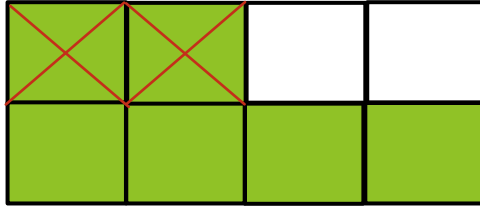
5/6 – 4/6 = 1/6
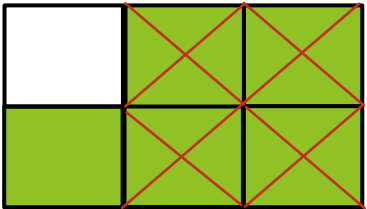
4/7 – 1/7 = 3/7
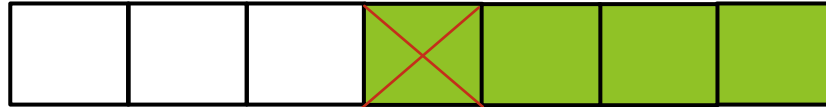
3/5 – 1/5 = 2/5

Intelligent practice:

Write these out as subtractions

4/10 9/10 ?

? 9/11 3/11

2/15 9/15 ?

? 8/12 5/12

6/8 7/8 ?

2/14 13/14 ?

Intelligent practice:

9/10 — 4/10, 5/10

9/11 — 6/11, 3/11

9/15 — 2/15, 7/15

8/12 — 3/12, 5/12

7/8 — 6/8, 1/8

13/14 — 2/14, 11/14
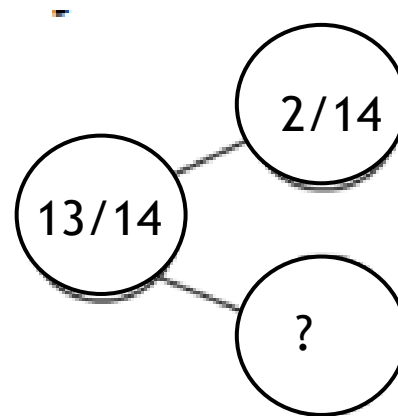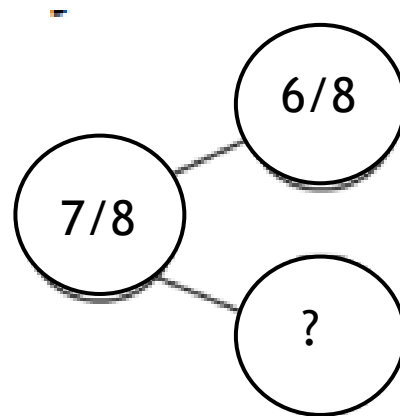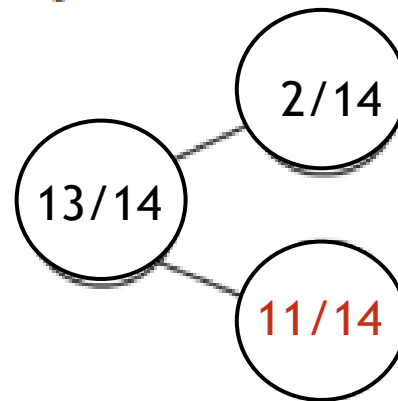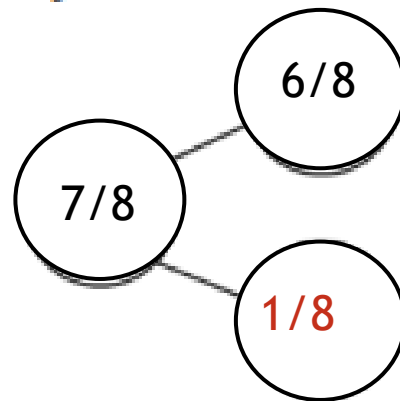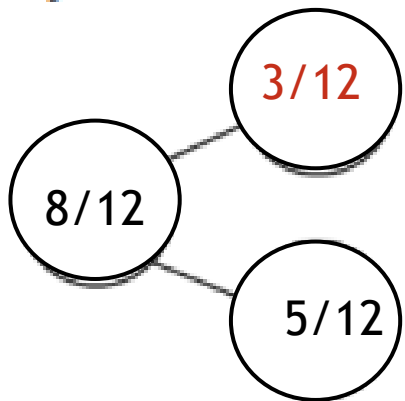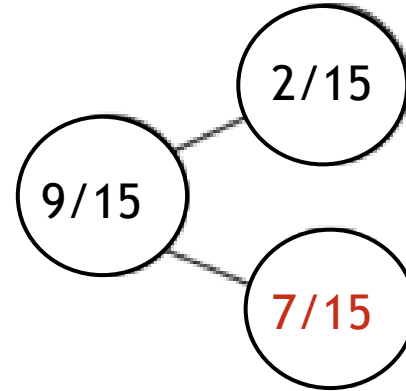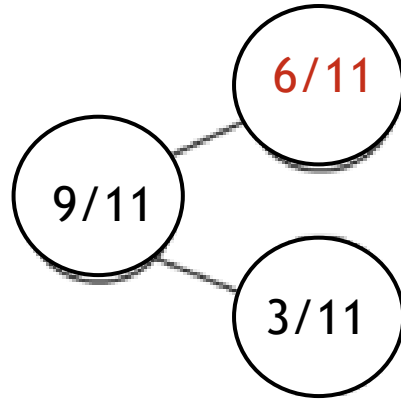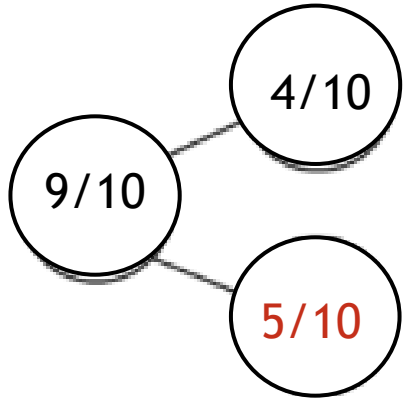
Intelligent Practice:

1) $10/11 - 3/11 - 2/11 =$
2) $12/14 - 6/14 - 2/14 =$
3) $15/20 - 5/20 - 2/20 =$
4) $9/10 - 3/10 - 1/10 =$
5) $12/18 - 6/18 - 4/18 =$

Challenge: Which of the answers is equivalent to ½ ?

Intelligent Practice:

1) $10/11 - 3/11 - 2/11 =$ 5/11
2) $12/14 - 6/14 - 2/14 =$ 4/14
3) $15/20 - 5/20 - 2/20 =$ 8/20
4) $9/10 - 3/10 - 1/10 =$ 5/10
5) $12/18 - 6/18 - 4/18 =$ 2/18

Challenge: Which of the answers is equivalent to ½ ?   5/10

Dive Deeper 1

Find the missing fractions:
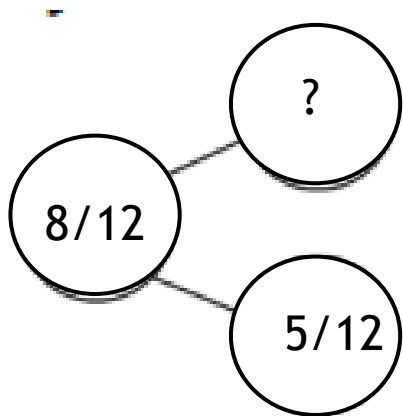
$$\frac{7}{7} - \frac{3}{7} = \frac{2}{7} + \frac{\square}{7}$$

$$\frac{\square}{9} - \frac{5}{9} = \frac{4}{9} - \frac{2}{9}$$

Dive Deeper 1 Answers

Find the missing fractions:

$$\frac{7}{7} - \frac{3}{7} = \frac{2}{7} + \frac{\Box}{7}$$

$$\frac{\Box}{9} - \frac{5}{9} = \frac{4}{9} - \frac{2}{9}$$
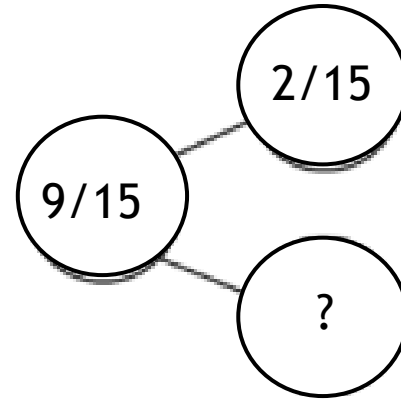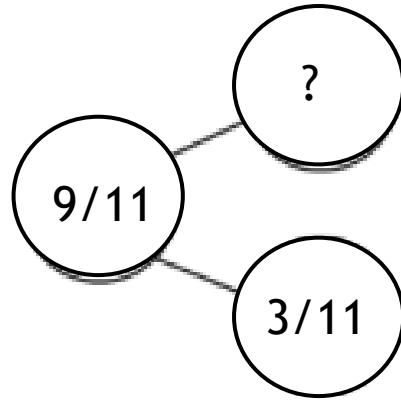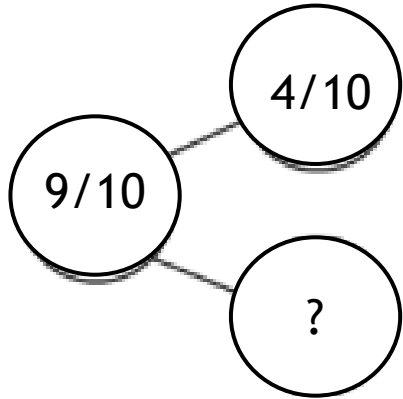
$$\frac{7}{7} - \frac{3}{7} = \frac{2}{7} + \frac{2}{7}$$

$$\frac{7}{9} - \frac{5}{9} = \frac{4}{9} - \frac{2}{9}$$

Dive Deeper 2:

Annie and Amir are working out the answer to this problem.

$$\frac{7}{9} - \frac{3}{9}$$

Annie uses this model.

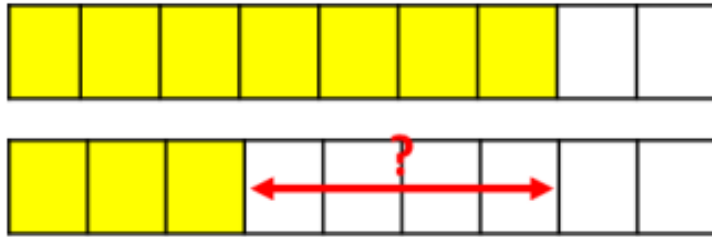Amir uses this model.

Which model is correct? Explain why.

Can you write a number story for each model?

Dive Deeper 2: Answers

Annie and Amir are working out the answer to this problem.

$$\frac{7}{9} - \frac{3}{9}$$

Annie uses this model.

Amir uses this model.

Which model is correct? Explain why.

Can you write a number story for each model?

They are both correct. The first model shows finding the difference and the second model shows take away.

Ensure the number stories match the model of subtraction. For Annie's this will be finding the difference. For Amir this will be take away.