

Reasoning and Problem Solving

Step 7: Subtract Fractions

National Curriculum Objectives:

Mathematics Year 3: (3F4) [Add and subtract fractions with the same denominator within one whole \[for example, \$5/7 + 1/7 = 6/7\$ \]](#)

Mathematics Year 3: (3F10) [Solve problems that involve the above objectives](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Subtract fractions using a visual image, where the denominator less than 10.

Expected Subtract fractions with no visual image, where the denominator 12 or less.

Greater Depth Subtract fractions with no visual image, where the denominator is 12 or less (one equivalent fraction needs simplifying).

Questions 2, 5 and 8 (Reasoning)

Developing Identify and explain if the statement is correct when subtracting fractions and comparing whether it is more or less than another fraction. Includes denominators that are less than 10 and visual images.

Expected Identify and explain if the statement is correct when subtracting fractions and comparing whether it is more or less than another fraction. Includes denominators that are 12 or less.

Greater Depth Identify and explain if the statement is correct when subtracting fractions and comparing whether it is more or less than another fraction. Includes denominators that are 12 or less and one equivalent fraction.

Questions 3, 6 and 9 (Problem Solving)

Developing Choose the fraction to make the part whole model correct. 1 fraction from a possible 3. Includes denominators that are less than 10.

Expected Choose the fractions to make the part whole model correct. 2 fractions from a possible 4. Includes denominators that are 12 or less.

Greater Depth Choose the fractions to make the part whole model correct. 2 fractions from a possible 4. Includes denominators that are 12 or less and one equivalent fraction.

More [Year 3 Fractions](#) resources.

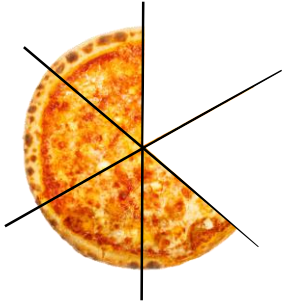
Did you like this resource? Don't forget to [review](#) it on our website.

Subtract Fractions

1a. Joe has $\frac{4}{6}$ of a pizza.

He gives Niall one-sixth of the pizza.

How many sixths does he have left?



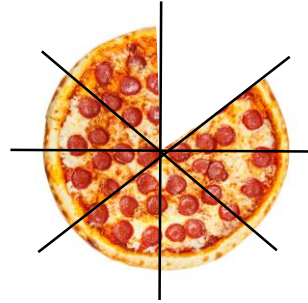
PS

Subtract Fractions

1b. Katie has $\frac{7}{8}$ of a pizza.

She gives Josh four-eighths of the pizza.

How many eighths does she have left?



PS

2a. Is Charlie correct?



I subtract $\frac{2}{7}$ from $\frac{6}{7}$.

Sami has $\frac{5}{7}$.

I have more than Sami.

Charlie



Explain why.



R

2b. Is Savannah correct?



I subtract $\frac{2}{6}$ from $\frac{7}{6}$.

Hanif has $\frac{4}{6}$.

I have less than Hanif.

Savannah



Explain why.



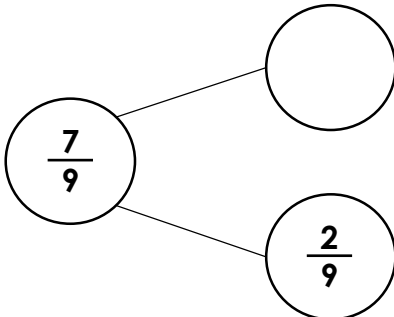
R

3a. Choose a fraction to make the part whole model correct.

$$\frac{3}{9}$$

$$\frac{4}{9}$$

$$\frac{5}{9}$$



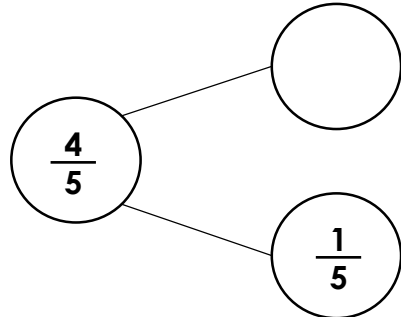
PS

3b. Choose a fraction to make the part whole model correct.

$$\frac{2}{5}$$

$$\frac{3}{5}$$

$$\frac{4}{5}$$



PS

Subtract Fractions

4a. Simon has $\frac{9}{12}$ of a cake.

He gives Toby four-twelfths of the cake.

How many twelfths does he have left?



PS

Subtract Fractions

4b. Leo has $\frac{9}{10}$ of a chocolate bar.

He gives Lottie seven-tenths of the bar.

How many tenths does he have left?



PS

5a. Is Remi correct?



Remi

I subtract $\frac{3}{9}$ from $\frac{8}{9}$.

Syrie has $\frac{4}{9}$.

I have more than Syrie.

Explain why.



R

5b. Is Amit correct?



Amit

I subtract $\frac{2}{8}$ from $\frac{7}{8}$.

Harlow has $\frac{4}{8}$.

I have less than Harlow.

Explain why.



R

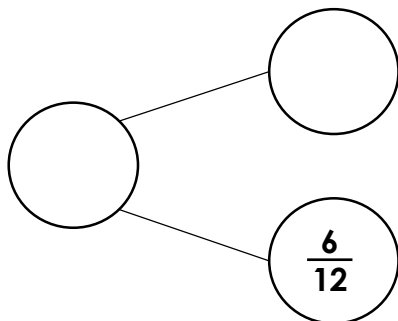
6a. Choose fractions to make the part whole model correct.

$$\frac{2}{12}$$

$$\frac{5}{12}$$

$$\frac{11}{12}$$

$$\frac{3}{12}$$



PS

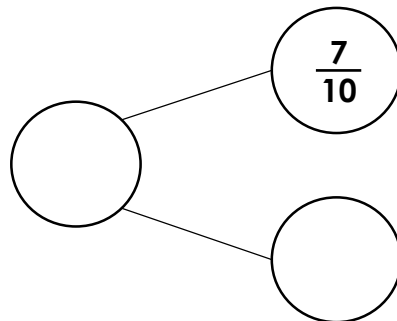
6b. Choose fractions to make the part whole model correct.

$$\frac{10}{10}$$

$$\frac{1}{10}$$

$$\frac{4}{10}$$

$$\frac{3}{10}$$



PS

Subtract Fractions

7a. Asha has $\frac{8}{10}$ of a pie.

She gives Tia two-twentieths of the pie.

How many tenths does she have left?



PS

Subtract Fractions

7b. Alonzo has $\frac{6}{8}$ of a pizza.

He gives Dani six-sixteenths of it.

How many eighths does he have left?



PS

8a. Is Georgie correct?



Georgie

I subtract $\frac{4}{10}$ from $\frac{9}{10}$.

Alice has $\frac{4}{20}$.

I have more than Alice.

Explain why.



R

8b. Is Anton correct?



Anton

I subtract $\frac{7}{12}$ from $\frac{12}{12}$.

Hari has $\frac{1}{2}$.

I have more than Hari.

Explain why.



R

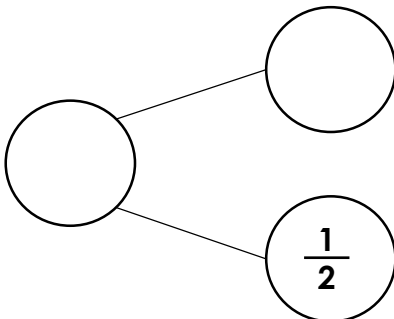
9a. Choose fractions to make the part whole model correct.

$$\frac{1}{10}$$

$$\frac{8}{10}$$

$$\frac{3}{10}$$

$$\frac{2}{10}$$



PS

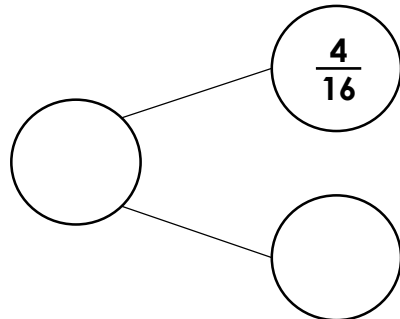
9b. Choose fractions to make the part whole model correct.

$$\frac{2}{8}$$

$$\frac{5}{8}$$

$$\frac{1}{8}$$

$$\frac{7}{8}$$



PS

Reasoning and Problem Solving Subtract Fractions

Developing

1a. $\frac{3}{6}$

2a. No, Charlie has $\frac{4}{7}$ which is less than $\frac{5}{7}$.

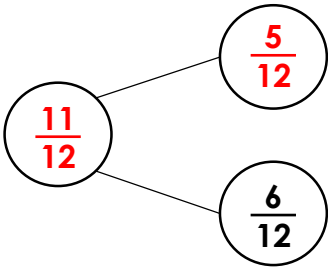
3a. $\frac{5}{9}$

Expected

4a. $\frac{5}{12}$

5a. Remi is correct as $\frac{5}{9}$ is more than $\frac{4}{9}$.

6a.

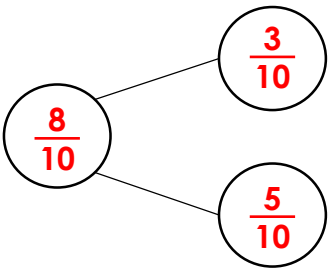


Greater Depth

7a. $\frac{7}{10}$

8a. Georgie is correct as $\frac{5}{10}$ is more than $\frac{2}{10}$.

9a.



Reasoning and Problem Solving Subtract Fractions

Developing

1b. $\frac{3}{8}$

2b. No, Savannah has $\frac{5}{6}$ which is more than $\frac{4}{6}$.

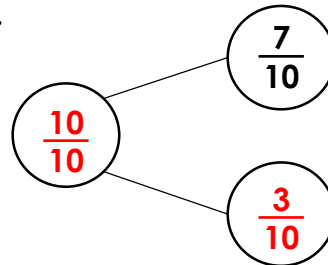
3b. $\frac{3}{5}$

Expected

4b. $\frac{2}{10}$

5b. No, Amit has $\frac{5}{8}$ which is more than $\frac{4}{8}$.

6b.



Greater Depth

7b. $\frac{3}{8}$

8b. No, Anton has $\frac{5}{12}$ which is less than $\frac{6}{12}$.

9b.

