Subtract fractions

1 Complete the subtractions.

Use the bar models to help you.

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

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

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

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

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

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

What fraction of the chocolate bar does he have left?

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

3 Complete the subtractions.

Simplify your answers where possible.

a) $\dfrac{7}{10} - \dfrac{1}{10} = \boxed{} = \boxed{}$

b) $\dfrac{7}{10} - \dfrac{2}{10} = \boxed{} = \boxed{}$

c) $\dfrac{7}{10} - \dfrac{3}{10} = \boxed{} = \boxed{}$

d) $\dfrac{7}{12} - \dfrac{3}{12} = \boxed{} = \boxed{}$

e) $\dfrac{8}{12} - \dfrac{4}{12} = \boxed{} = \boxed{}$

f) $\dfrac{9}{12} - \dfrac{5}{12} = \boxed{} = \boxed{}$

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

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

4 Complete the part-whole models.

a) $\dfrac{4}{5}$, $\dfrac{3}{5}$

b) $\dfrac{4}{9}$, $\dfrac{1}{9}$

c) $\dfrac{7}{9}$, $\dfrac{4}{9}$
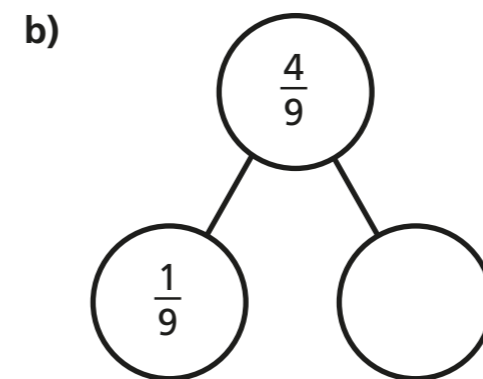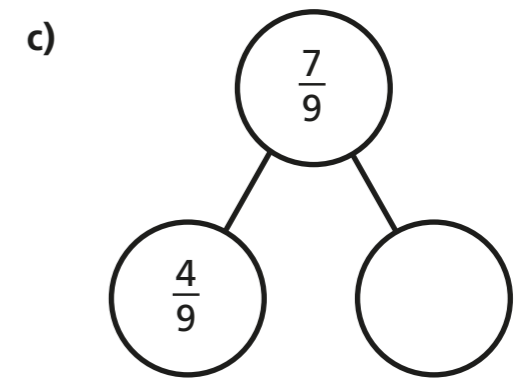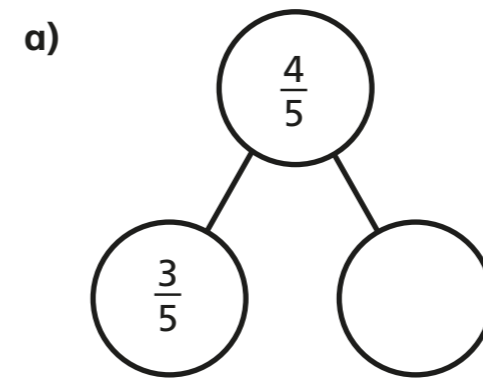
5 Complete the part-whole model in four different ways.

$$\frac{\square}{8}$$

$$\frac{\square}{8} \qquad \frac{3}{8}$$

$$\frac{\square}{8}$$

$$\frac{\square}{8} \qquad \frac{3}{8}$$

$$\frac{\square}{8}$$

$$\frac{\square}{8} \qquad \frac{3}{8}$$

$$\frac{\square}{8}$$

$$\frac{\square}{8} \qquad \frac{3}{8}$$
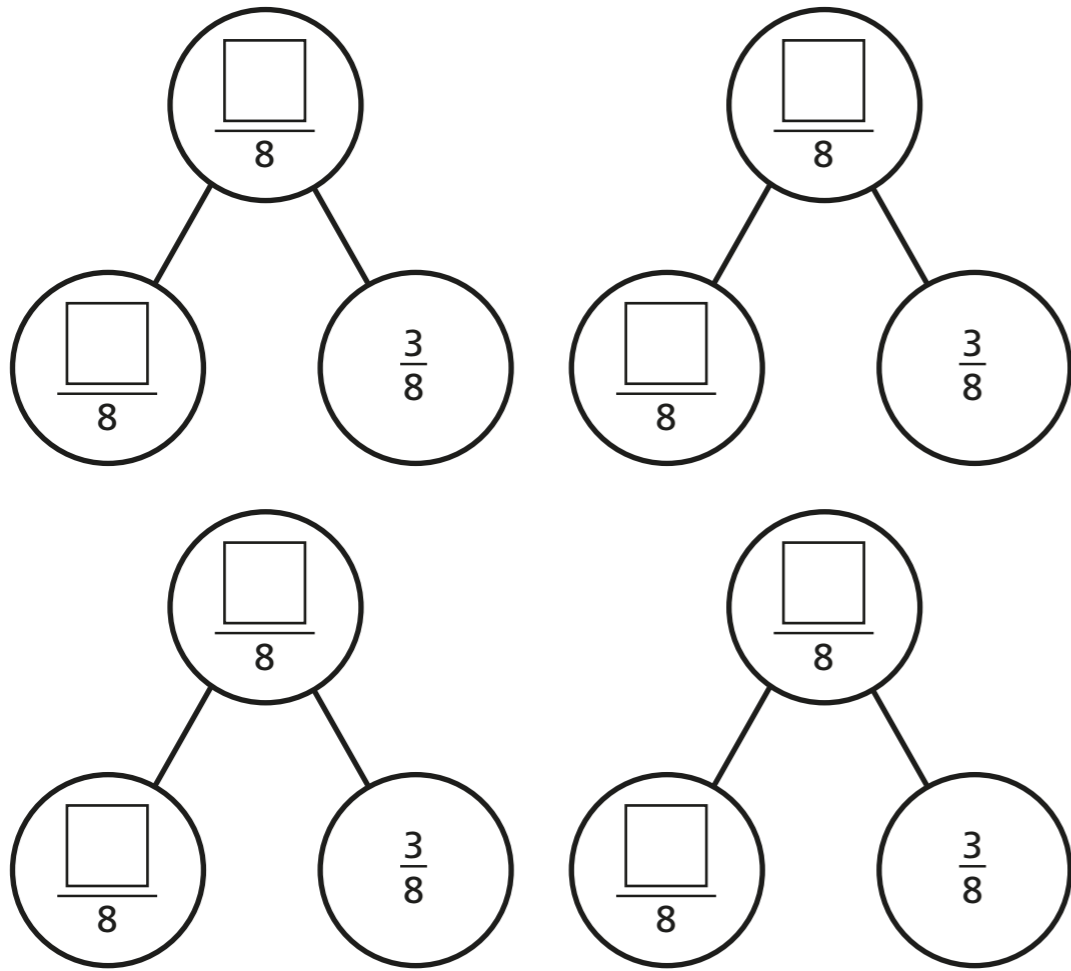
6 Kim has read $\frac{6}{7}$ of her book.

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?

Kim has read $\boxed{}$ more of her book than Tom.

7 Write the missing numerators.

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

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

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

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

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

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

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

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

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

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

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How many other answers can you find?