

What could the three missing numerators be?

$$\frac{\boxed{}}{4} + \frac{\boxed{}}{12} + \frac{\boxed{}}{3} = \frac{13}{12}$$

Give three different possibilities.

RECALL

Complete the additions.

Use bar models to help you.

$$\text{a) } \frac{1}{2} + \frac{1}{4} + \frac{1}{12} = \boxed{}$$

$$\text{b) } \frac{1}{2} + \frac{1}{3} + \frac{1}{12} = \boxed{}$$

$$\text{c) } \frac{2}{3} + \frac{1}{6} + \frac{1}{12} = \boxed{}$$

$$\text{d) } \frac{1}{3} + \frac{1}{4} + \frac{1}{6} = \boxed{}$$

**GUIDED
PRACTICE**

LO: Adding three or more fractions.

Some will even add fractions out of context.

Some will answer word problems.

Most will complete part whole models.

All will complete number sentences.

LEARNING HABIT RESILIENCE. |



$$\frac{1}{5} + \frac{3}{10} + \frac{7}{20} = \boxed{}$$



$$\frac{3}{16} + \frac{1}{2} + \frac{1}{4} = \boxed{}$$

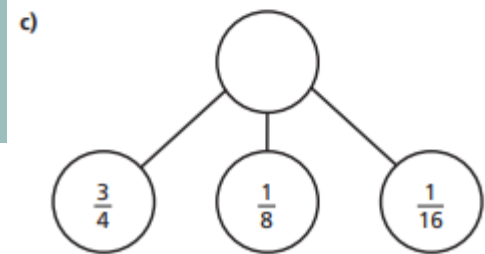
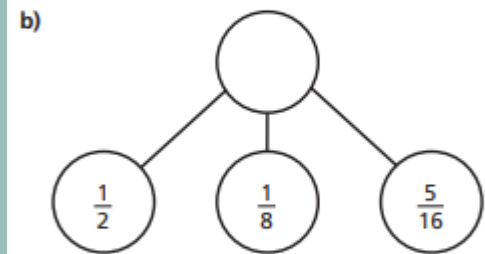
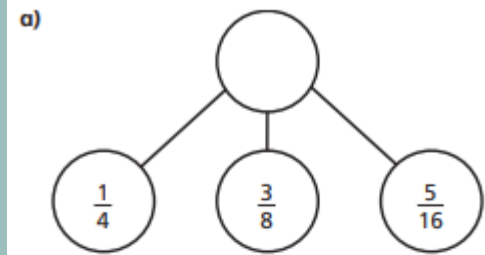


$$\frac{1}{5} + \frac{8}{35} + \frac{2}{7} = \boxed{}$$

**INTELLIGENT
PRACTICE.**

Dive deeper 1

Complete the part-whole models.



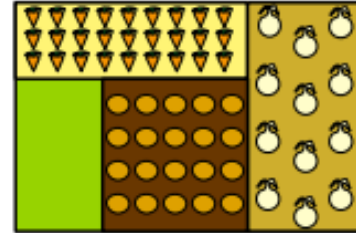
Dive deeper 2

Rosie has a vegetable patch.

$\frac{2}{9}$ of the patch contains carrots.

$\frac{5}{18}$ of the patch contains potatoes.

$\frac{1}{3}$ of the patch contains onions.



What fraction of the patch contains carrots, potatoes or onions?

Dive deeper 3

Complete the number square.

The total of each column is $\frac{4}{5}$

The total of each row is $\frac{4}{5}$

$\frac{3}{10}$	$\frac{2}{5}$	
	$\frac{1}{10}$	
$\frac{7}{20}$		

DIVE DEEPER



$$\frac{1}{5} + \frac{3}{10} + \frac{7}{20} = \boxed{\frac{17}{20}}$$



$$\frac{3}{16} + \frac{1}{2} + \frac{1}{4} = \boxed{\frac{15}{16}}$$



$$\frac{1}{5} + \frac{8}{35} + \frac{2}{7} = \boxed{\frac{25}{35}}$$

INTELLIGENT
PRACTICE
ANSWERS

Dive deeper 1

Complete the part-whole models.

a)

A part-whole model with a top circle containing $15/16$ and three bottom circles containing $1/4$, $3/8$, and $5/16$.

b)

A part-whole model with a top circle containing $15/16$ and three bottom circles containing $1/2$, $1/8$, and $5/16$.

c)

A part-whole model with a top circle containing $15/16$ and three bottom circles containing $3/4$, $1/8$, and $1/16$.

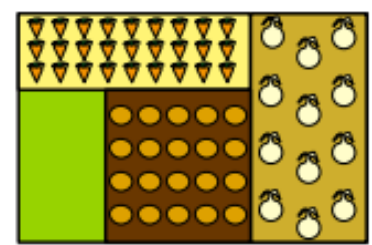
Dive deeper 2

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$15/18$

Dive deeper 3

Complete the number square.

The total of each column is $\frac{4}{5}$

The total of each row is $\frac{4}{5}$

$\frac{3}{10}$	$\frac{2}{5}$	$1/10$
$3/20$	$\frac{1}{10}$	$11/20$
$\frac{7}{20}$	$6/20$	$3/20$

DIVE DEEPER