Equivalent fractions

Mathematics
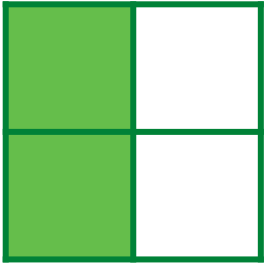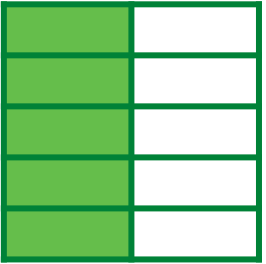
Mr Coward
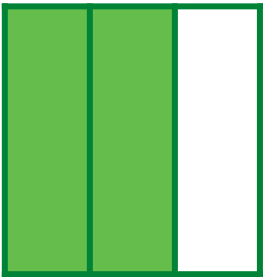
Try this

There are many ways to write fractions that represent the same value.

$$\frac{1}{2} = \frac{3}{6}$$

$$\frac{1}{3} = \frac{\square}{9}$$

$$\frac{\square}{\square} = \frac{\square}{\square}$$

Find other sets of fractions with the same value.
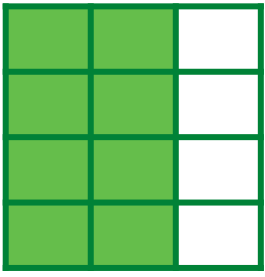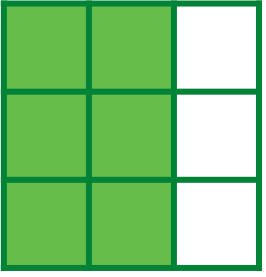
Connect
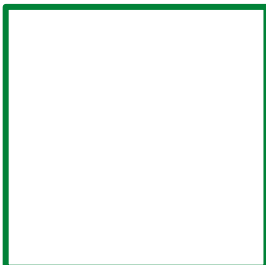
Complete the sets of equivalent fractions

 = 1

$$\frac{1}{2} = \frac{2}{\square} = \frac{\square}{10}$$

$$\frac{\square}{\square} = \frac{8}{\square} = \frac{\square}{\square}$$
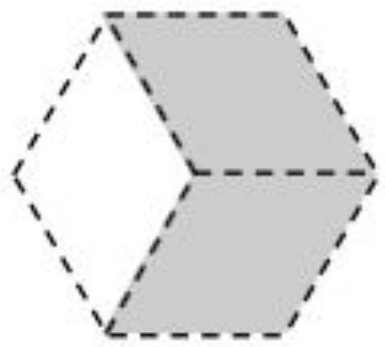
Draw two diagrams to represent fractions equivalent to $\frac{4}{5}$
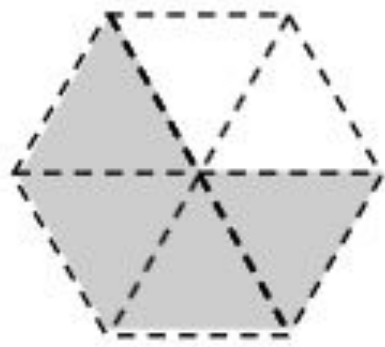
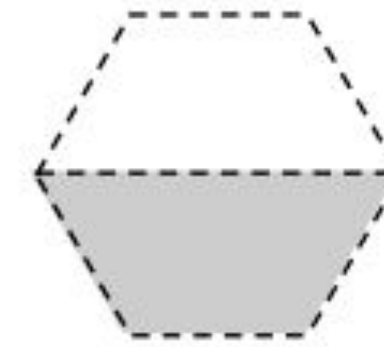$$\frac{4}{5} = \frac{\square}{\square} = \frac{\square}{\square}$$
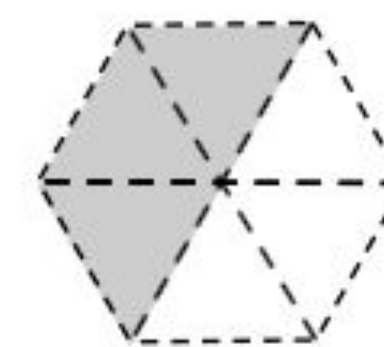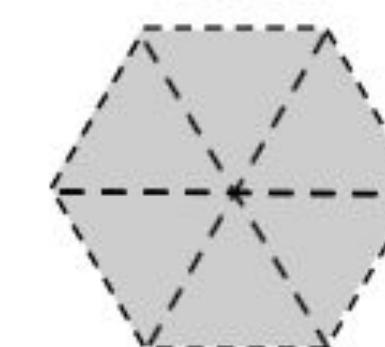
Independent task

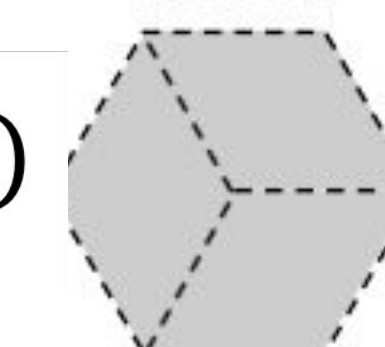1. What fraction a a hexagon is shaded?

a) $\dfrac{\square}{3}$

b) $\dfrac{\square}{6}$

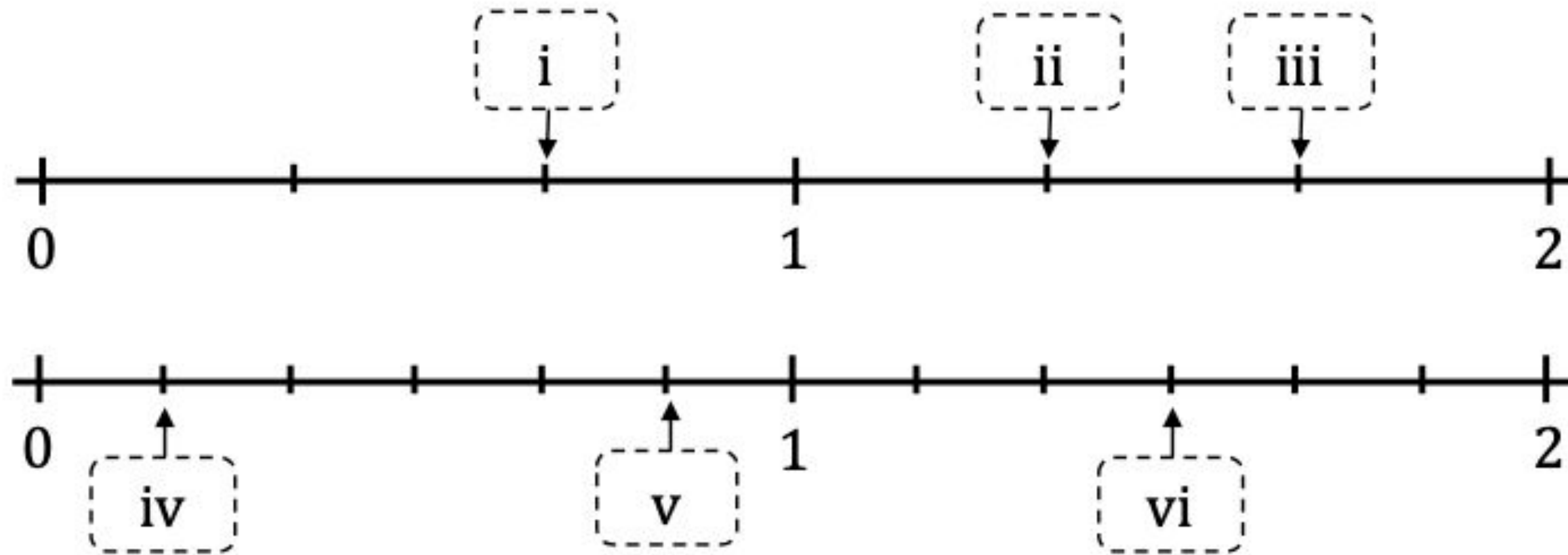c) $\dfrac{\square}{\square}$

d) $\dfrac{3}{\square}$

e) $\dfrac{\square}{6}$

f) $\dfrac{\square}{\square}$

Independent task

2. a. Find the marked numbers:

2. b. Use the number line to convert i, ii and iii into sixths.

Why couldn't you convert iv, v, and vi into thirds?

Independent task

3. Find the missing numbers:

a) $\dfrac{3}{11} = \dfrac{}{44}$

b) $\dfrac{4}{5} = \dfrac{12}{}$

c) $\dfrac{3}{} = \dfrac{6}{24}$

d) $\dfrac{10}{7} = \dfrac{}{56}$

e) $\dfrac{2}{8} = \dfrac{}{28}$

f) $\dfrac{7}{6} = \dfrac{21}{}$

g) $\dfrac{3}{} = \dfrac{5}{25}$

h) $\dfrac{40}{5} = \dfrac{}{26}$

Explore

How many different sets of equivalent fractions can you find by placing the digit cards in the frame?

1   2   3   4   6   8   9   12

$$\frac{\square}{\square} = \frac{\square}{\square}$$