Chal-
lenge

# Week Commencing 3–
# 4.5. 20

With equivalent fractions the same thing must be done to both the top and bottom using either multiplication or division. Check out the video to see the details.

## Challenge 1

Complete the following fractions to make the fractions equivalent.

| | | | |
|---|---|---|---|
| 1. $\frac{1}{2} = \frac{\square}{8}$ | 2. $\frac{3}{\square} = \frac{6}{10}$ | 3. $\frac{3}{4} = \frac{12}{\square}$ | 4. $\frac{\square}{10} = \frac{1}{2}$ |
| 5. $\frac{7}{\square} = \frac{14}{16}$ | 6. $\frac{2}{3} = \frac{\square}{12}$ | 7. $\frac{\square}{6} = \frac{4}{24}$ | 8. $\frac{1}{8} = \frac{2}{\square}$ |
| 9. $\frac{2}{10} = \frac{\square}{5}$ | 10. $\frac{2}{\square} = \frac{1}{3}$ | 11. $\frac{4}{5} = \frac{16}{\square}$ | 12. $\frac{\square}{16} = \frac{1}{4}$ |

## Challenge 2

Find 5 equivalent fractions to each of the following fractions

1. 1/2
2. 1/4
3. 1/3
4. 1/5
6. 1/10

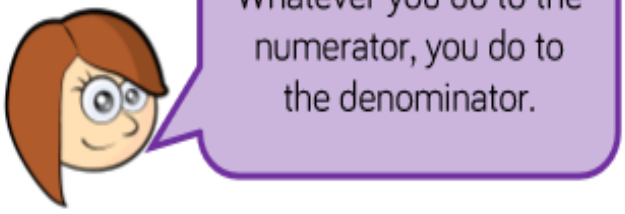
# REASONING

Here are some fraction cards. All of the fractions are equivalent.

$\frac{4}{A}$ $\frac{B}{C}$ $\frac{20}{50}$

A + B = 16
Calculate the value of C.

Kim says,




Here are the equivalent fractions she has found for $\frac{4}{8}$:

$\frac{4}{8} = \frac{8}{16}$ $\frac{4}{8} = \frac{6}{10}$

$\frac{4}{8} = \frac{2}{4}$ $\frac{4}{8} = \frac{1}{5}$

Does Kim's method work? Explain why.