

UNIT 10 *Arithmetic: Fractions*

Overhead Slides

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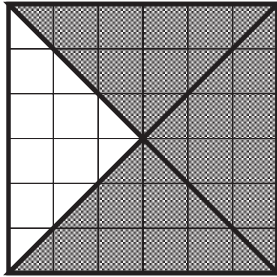
- 10.1 Fraction Diagrams 1
- 10.2 Fraction Diagrams 2
- 10.3 Fraction Number Lines
- 10.4 Equivalent Fractions 1
- 10.5 Equivalent Fractions 2
- 10.6 Equivalent Fractions on a Number Line
- 10.7 Fractions of Quantities 1
- 10.8 Fractions of Quantities 2
- 10.9 Mixed Numbers and Vulgar Fractions 1
- 10.10 Mixed Numbers and Vulgar Fractions 2

OS 10.1

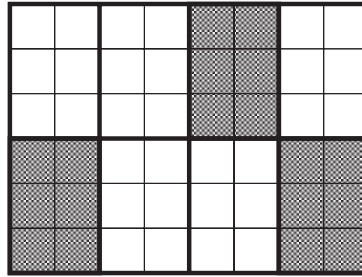
Fraction Diagrams 1

What fraction of each shape is shaded?

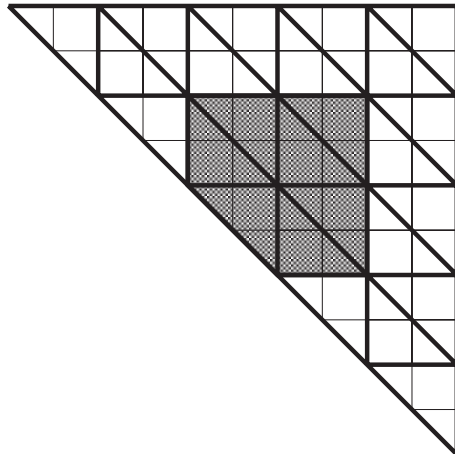
(a)



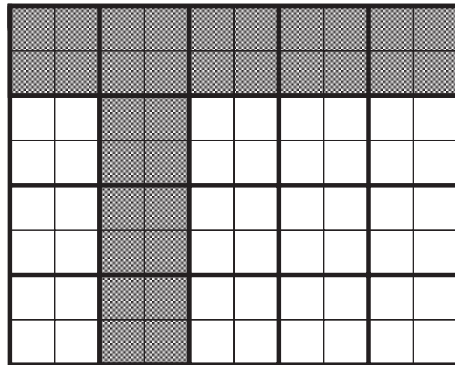
(b)



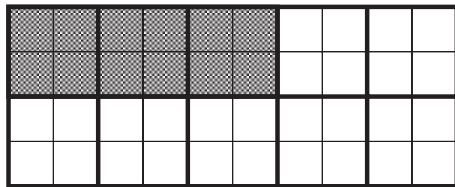
(c)



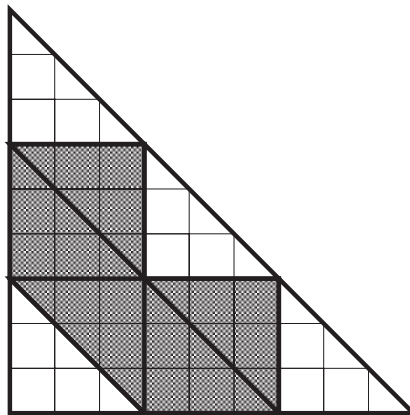
(d)



(e)



(f)

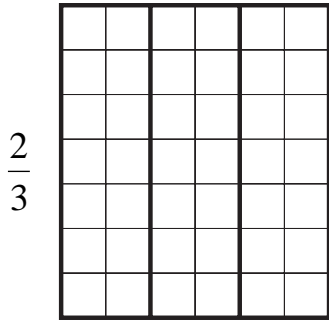


OS 10.2

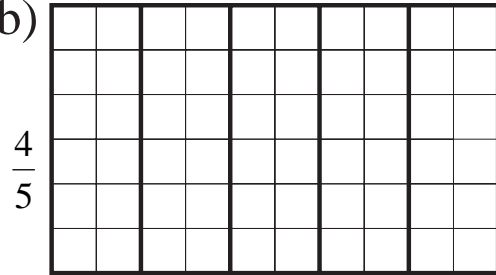
Fraction Diagrams 2

On each diagram, shade the fraction stated:

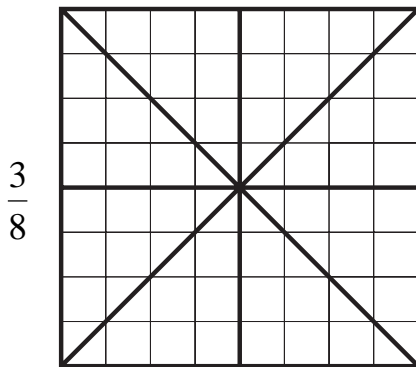
(a)



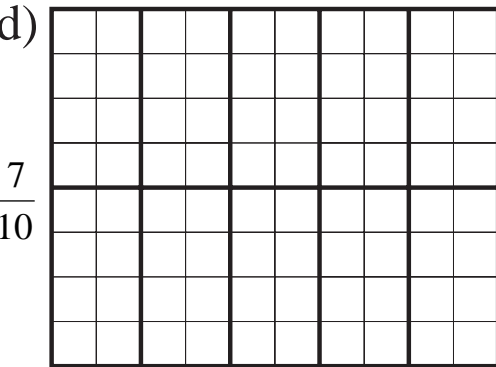
(b)



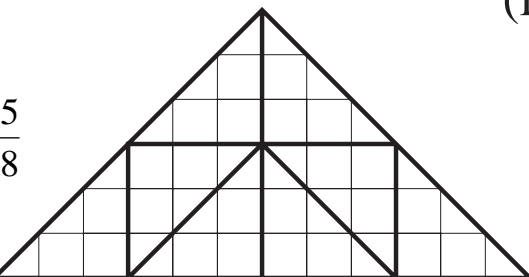
(c)



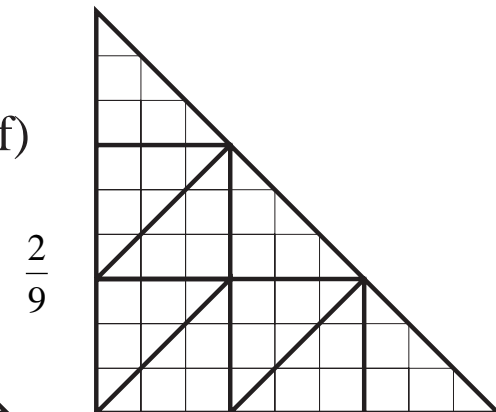
(d)



(e)



(f)

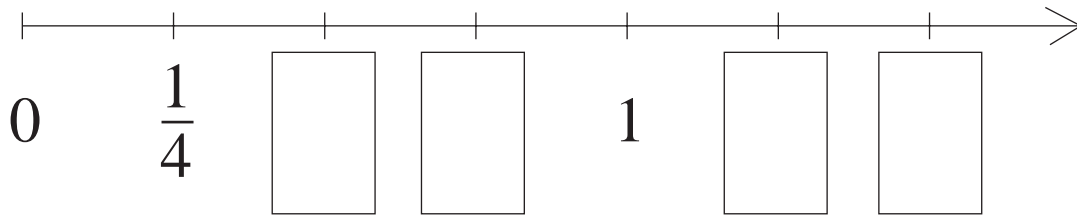


OS 10.3

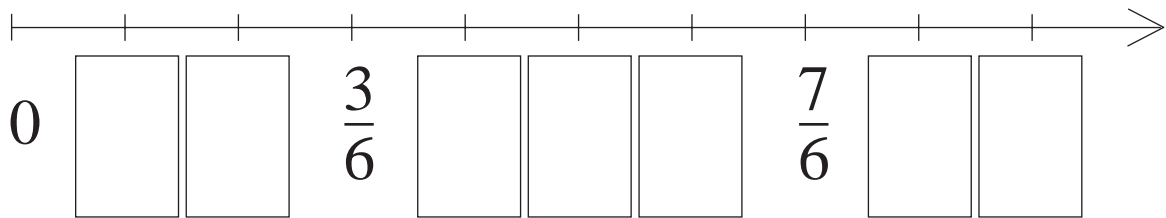
Fraction Number Lines

Fill in each box with the correct fraction:

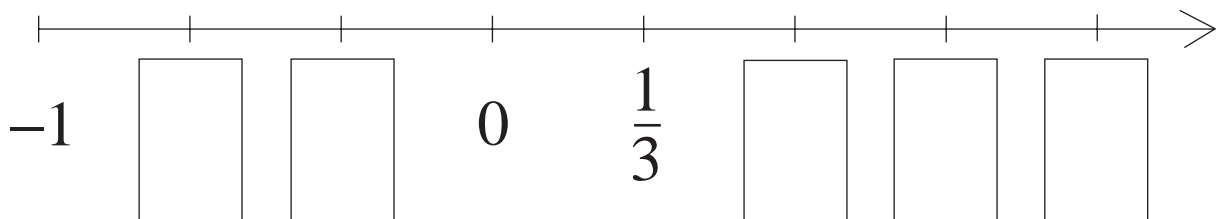
(a)



(b)



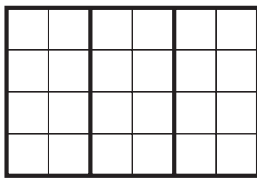
(c)



OS 10.4

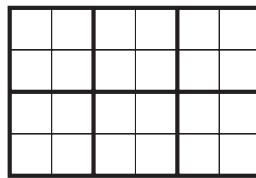
Equivalent Fractions 1

On each diagram, shade the fraction stated:



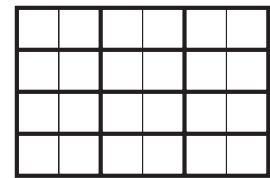
$$\frac{1}{3}$$

=

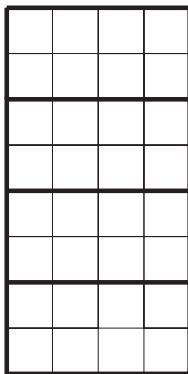


$$\frac{2}{6}$$

=

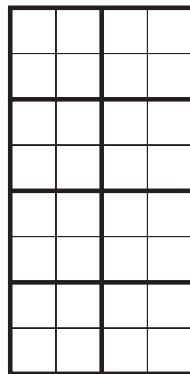


$$\frac{4}{12}$$



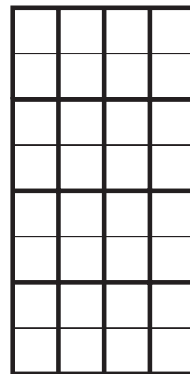
$$\frac{3}{4}$$

=



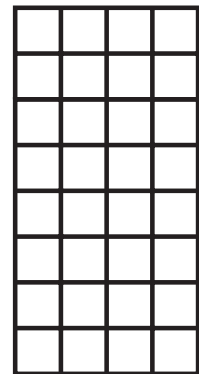
$$\frac{6}{8}$$

=

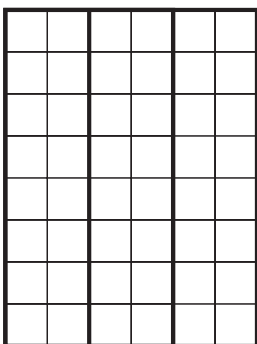


$$\frac{12}{16}$$

=

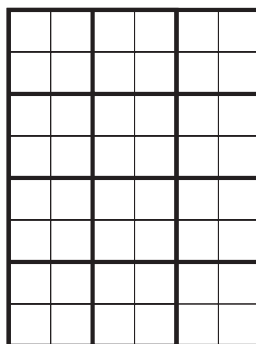


$$\frac{24}{32}$$



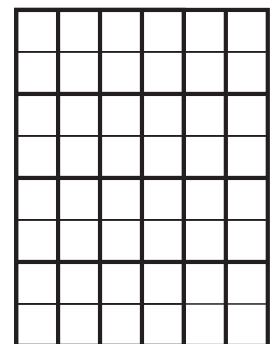
$$\frac{2}{3}$$

=



$$\frac{8}{12}$$

=



$$\frac{16}{24}$$

OS 10.5

Equivalent Fractions 2

Complete the fractions:

$$\frac{2}{3} = \frac{\quad}{6} = \frac{\quad}{9} = \frac{\quad}{12}$$

$$\frac{3}{4} = \frac{\quad}{8} = \frac{\quad}{16} = \frac{\quad}{40}$$

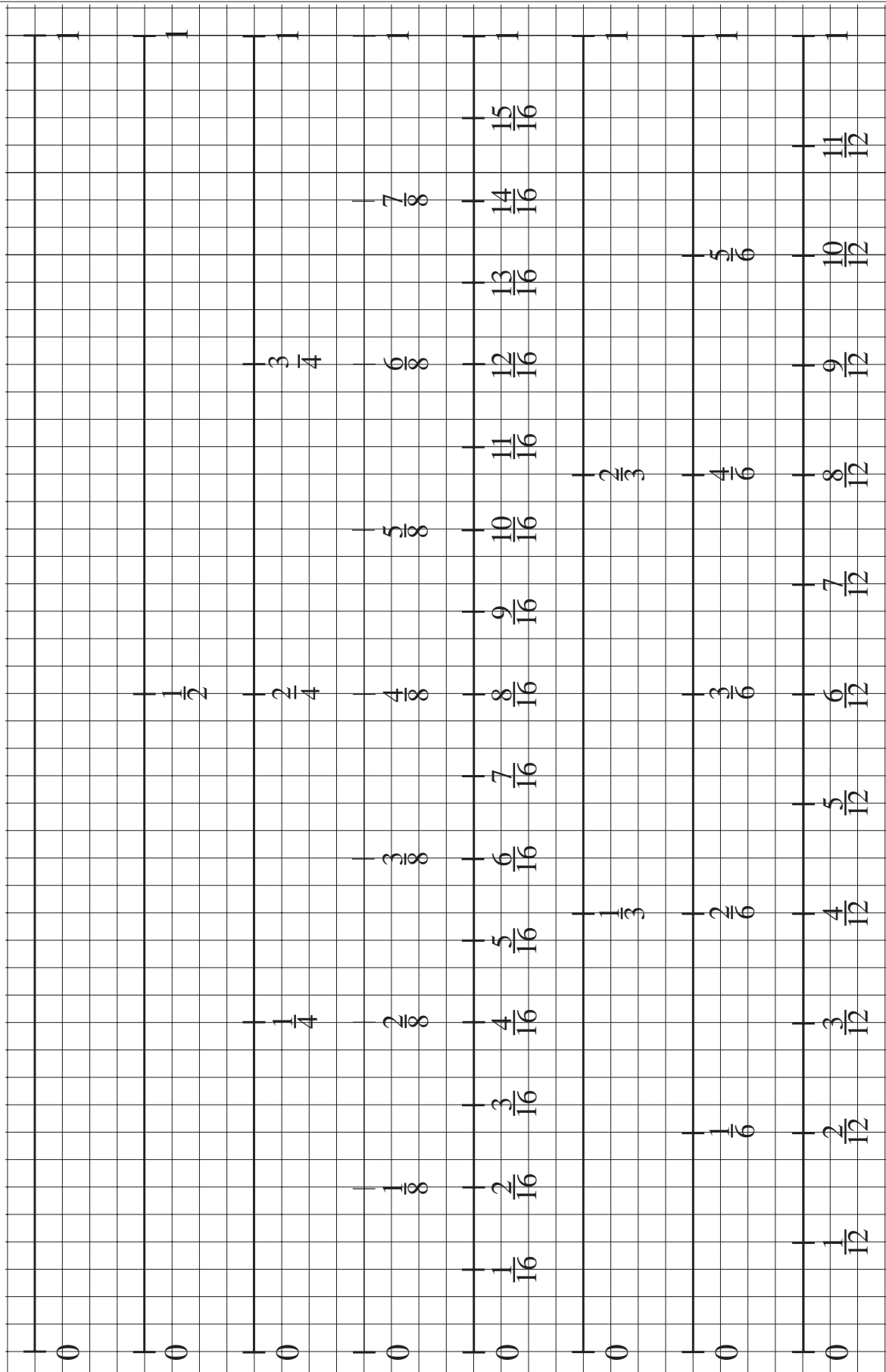
$$\frac{4}{5} = \frac{\quad}{10} = \frac{\quad}{100} = \frac{\quad}{1000}$$

$$\frac{3}{7} = \frac{\quad}{14} = \frac{\quad}{35} = \frac{\quad}{70}$$

$$\frac{5}{6} = \frac{\quad}{12} = \frac{\quad}{24} = \frac{\quad}{60}$$

OS 10.6

Equivalent Fractions on a Number Line



OS 10.7

Fractions of Quantities 1

(a) What is $\frac{3}{5}$ of £40 ?

$$\frac{1}{5} \times 40 = \square$$

$$\frac{3}{5} \times 40 = 3 \times \square$$

$$= \square$$

(b) What is $\frac{6}{7}$ of £35 ?

$$\frac{1}{7} \times 35 = \square$$

$$\frac{6}{7} \times 35 = 6 \times \square$$

$$= \square$$

OS 10.8

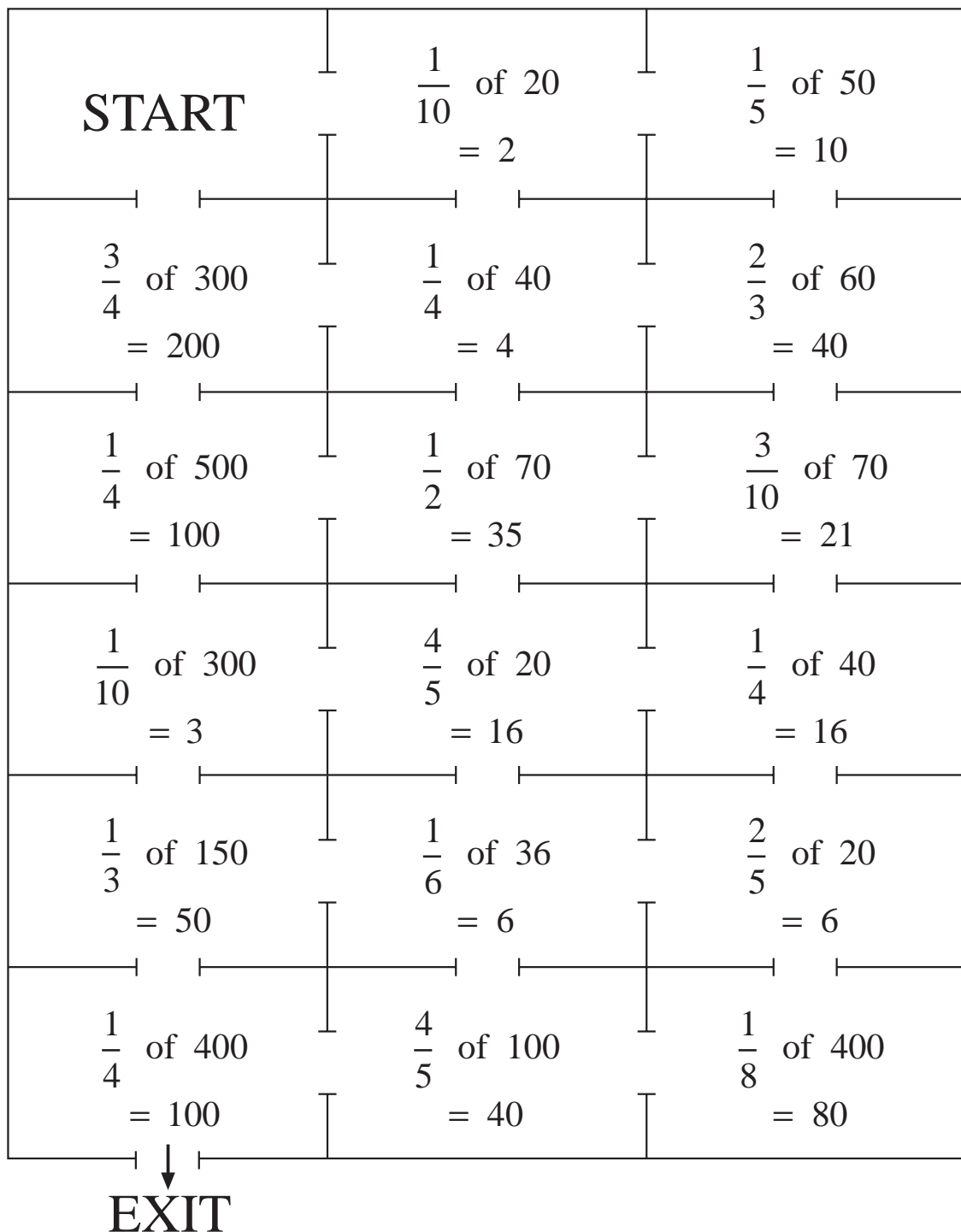
Fractions of Quantities 2

Look at the diagram below.

START at the top left hand box, and then go through the gap into the next box which contains a CORRECT statement.

Carry on in the same way through the maze until you EXIT.

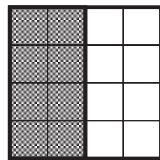
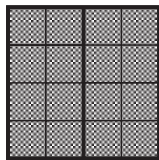
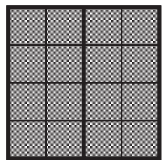
Draw a line on your diagram showing your route.



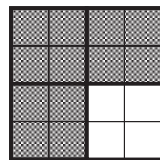
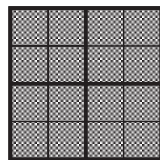
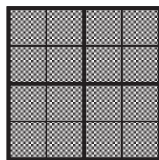
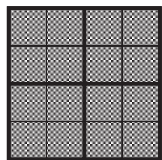
OS 10.9

Mixed Numbers and Vulgar Fractions 1

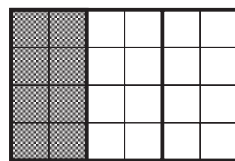
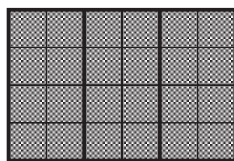
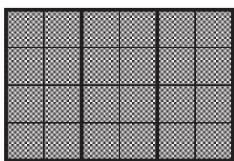
Write the number represented by the shaded part of each diagram as a *mixed fraction* and as a *vulgar (improper) fraction*:



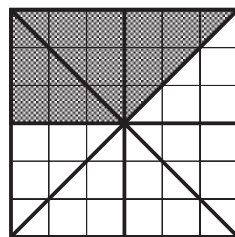
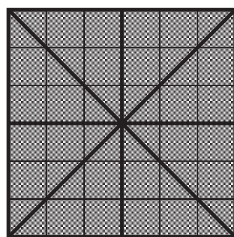
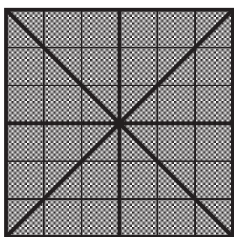
$$\square \frac{\square}{2} = \frac{\square}{2}$$



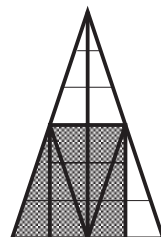
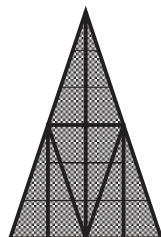
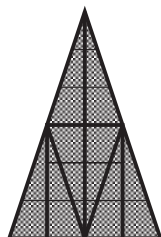
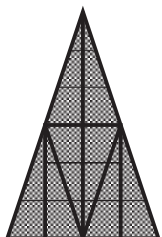
$$\square \frac{\square}{4} = \frac{\square}{4}$$



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



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

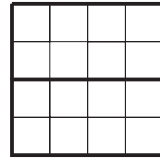
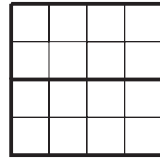
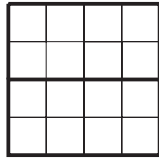
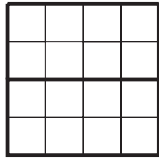
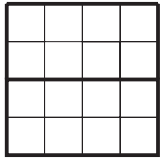


$$\square \frac{\square}{\square} = \frac{\square}{\square}$$

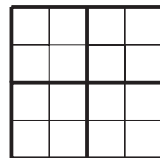
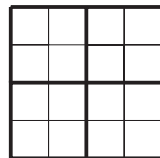
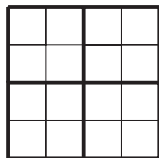
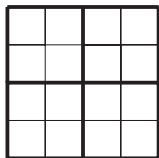
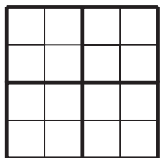
OS 10.10

Mixed Numbers and Vulgar Fractions 2

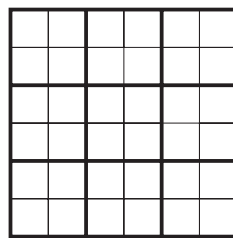
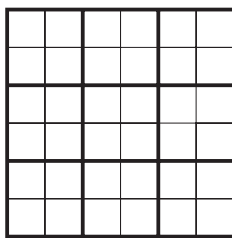
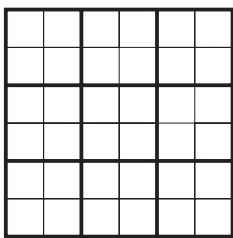
Shade the fraction stated in each case, and write as a mixed number:



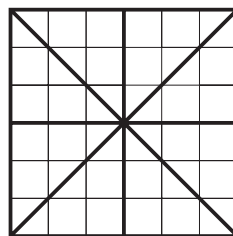
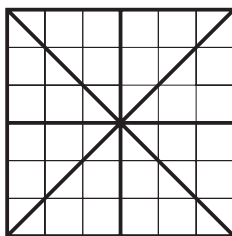
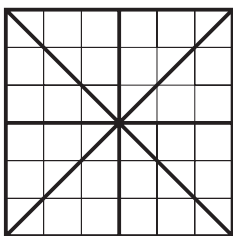
$$\frac{7}{2} = \square \frac{\square}{\square}$$



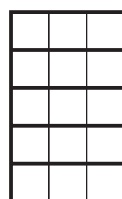
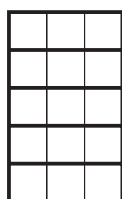
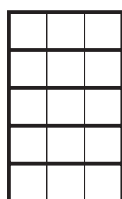
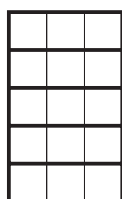
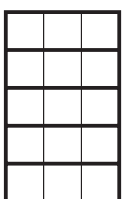
$$\frac{19}{4} = \square \frac{\square}{\square}$$



$$\frac{16}{9} = \square \frac{\square}{\square}$$



$$\frac{17}{8} = \square \frac{\square}{\square}$$



$$\frac{17}{5} = \square \frac{\square}{\square}$$