

UNIT 17 *Arithmetic: Decimals, Fractions and Percentages*

Overhead Slides

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OS 17.1

Decimals to Fractions

<i>Decimal</i>	<i>Fraction</i>
0.1	$\frac{1}{10}$
0.01	$\frac{1}{100}$
0.001	$\frac{1}{1000}$

Write the following decimals as fractions:

$$1. \quad 0.8 = \frac{\quad}{10} = \frac{\quad}{\quad}$$

$$2. \quad 0.07 = \frac{\quad}{\quad}$$

$$3. \quad 0.005 = \frac{\quad}{1000} = \frac{\quad}{200}$$

$$4. \quad 0.62 = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$5. \quad 1.25 = \frac{\quad}{100} = \frac{\quad}{\quad}$$

$$6. \quad 0.034 = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

OS 17.2*Fractions to Decimals 1*

Write these fractions as decimals:

$$1. \quad \frac{9}{10} =$$

$$2. \quad \frac{5}{100} =$$

$$3. \quad \frac{3}{1000} =$$

$$4. \quad \frac{21}{100} =$$

$$5. \quad \frac{691}{1000} =$$

$$6. \quad \frac{37}{1000} =$$

$$7. \quad \frac{107}{100} =$$

$$8. \quad \frac{162}{100} =$$

OS 17.3*Fractions to Decimals 2*

Complete the steps to write these fractions as decimals:

$$1. \quad \frac{1}{2} = \frac{\quad}{10} =$$

$$2. \quad \frac{4}{5} = \frac{\quad}{10} =$$

$$3. \quad \frac{1}{20} = \frac{\quad}{100} =$$

$$4. \quad \frac{1}{25} = \frac{\quad}{\quad} =$$

$$5. \quad \frac{1}{4} = \frac{\quad}{\quad} =$$

$$6. \quad \frac{7}{50} = \frac{\quad}{\quad} =$$

$$7. \quad \frac{13}{250} = \frac{\quad}{\quad} =$$

$$8. \quad \frac{9}{200} = \frac{\quad}{\quad} =$$

OS 17.4*Fractions to Decimals 3*

1. (a) Calculate: $34 \div 5$

$$5 \overline{) 34.0}$$

- (b) Hence write $\frac{34}{5}$ as a decimal:

$$\frac{34}{5} =$$

2. (a) Calculate: $13 \div 8$

$$8 \overline{) 13.000}$$

- (b) Hence write $\frac{13}{8}$ as a decimal:

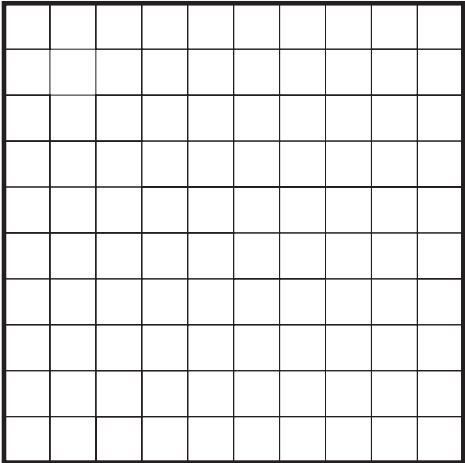
$$\frac{13}{8} =$$

OS 17.5

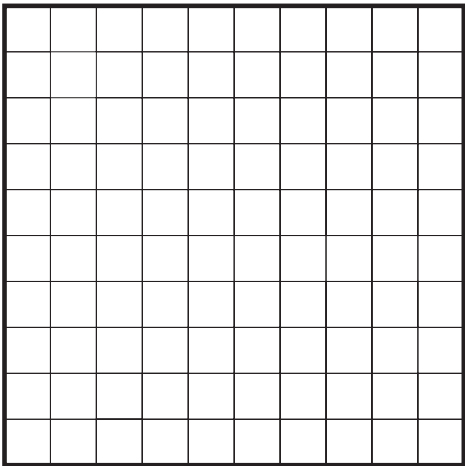
Percentages 1

Shade the stated percentage of each diagram below:

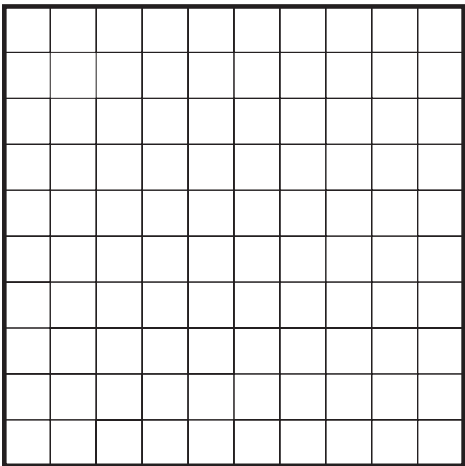
1. 39%



2. 40%



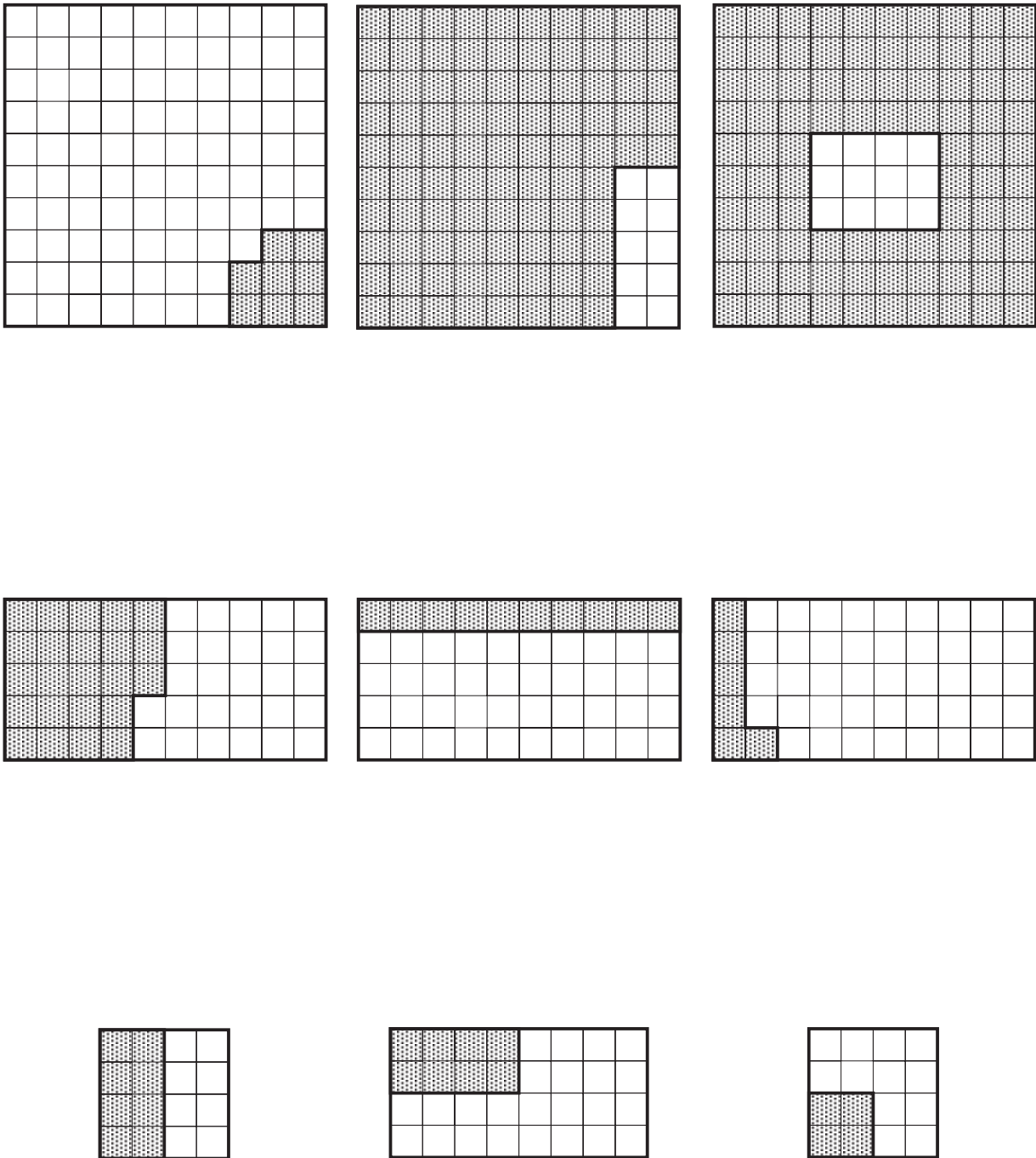
3. 15%



OS 17.6

Percentages 2

What percentage of each of the following shapes is shaded?



OS 17.7*Percentages 3*

Complete these calculations:

1. 5% of 200 kg =

2. 20% of 50 m =

3. 25% of £900 =

4. 30% of £80 =

OS 17.8*Decimals, Fractions and Percentages*

Complete this table:

<i>Percentage</i>	<i>Fraction</i>	<i>Decimal</i>
50%		
	$\frac{4}{5}$	
		0.07
	$\frac{3}{20}$	
12%		
		0.92
	$\frac{7}{40}$	
35%		
		0.08