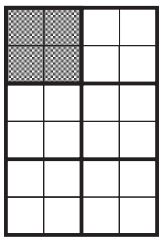
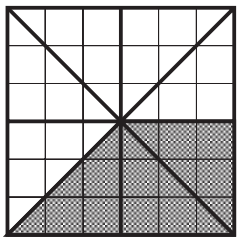
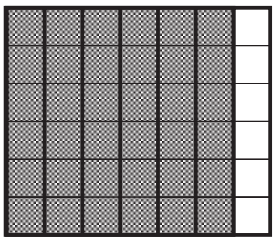
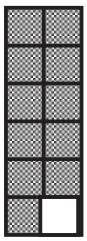
UNIT 10 *Arithmetic: Fractions* — Revision Test 10.1 (Standard)

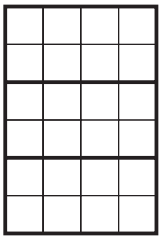
1. (a) Write down the fraction of each shape that has been shaded.

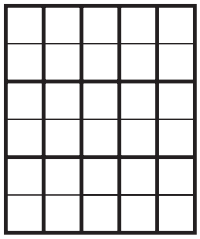
   (b) What fraction of each shape has *not* been shaded?

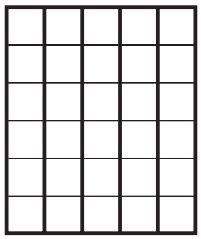
A  B  C  D 

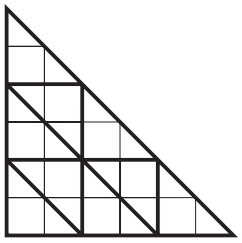
(8 marks)

2. Copy these shapes and shade the fraction stated:

(a) $\frac{2}{3}$ 

(b) $\frac{7}{15}$ 

(c) $\frac{3}{5}$ 

(d) $\frac{7}{9}$ 

(4 marks)

3. Write each of these fractions in their simplest form:

(a) $\frac{8}{10}$ (b) $\frac{3}{9}$ (c) $\frac{6}{8}$

(d) $\frac{4}{20}$ (e) $\frac{3}{12}$ (f) $\frac{4}{12}$

(6 marks)

4. Write out these equations and fill in the missing numbers:

(a) $\frac{3}{5} = \frac{?}{25}$ (b) $\frac{2}{7} = \frac{?}{28}$

(2 marks)

5. Calculate:

(a) $\frac{1}{5}$ of 45, (b) $\frac{1}{3}$ of 27,

(c) $\frac{2}{3}$ of 24, (d) $\frac{3}{4}$ of 12.

(8 marks)

Revision Test 10.1

6. In a bag there are 7 blue pencils and 9 green pencils.
What fraction of these pencils is blue?

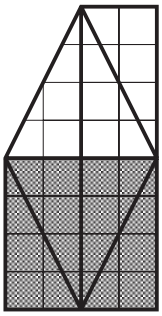
(2 marks)

UNIT 10 *Arithmetic: Fractions* — Revision Test 10.2 (Academic)

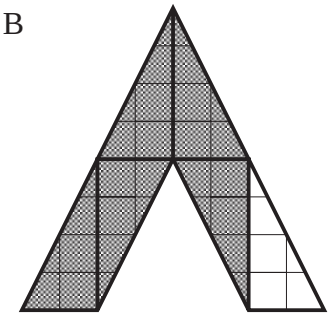
1. (a) Write down the fraction of each shape that has been shaded.

   (b) Write down the fraction of each shape that has *not* been shaded.

A



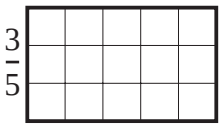
B



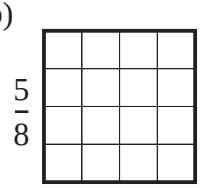
(4 marks)

2. Copy each rectangle and shade the fraction stated:

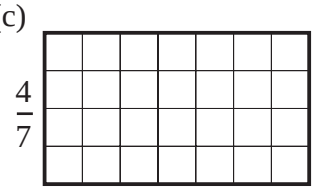
(a) $\frac{3}{5}$



(b) $\frac{5}{8}$



(c) $\frac{4}{7}$



(6 marks)

3. Write each of these fractions in their simplest form:

(a) $\frac{6}{10}$ (b) $\frac{8}{40}$ (c) $\frac{3}{12}$

(d) $\frac{9}{45}$ (g) $\frac{16}{40}$ (h) $\frac{18}{60}$

(6 marks)

4. Write out these equations and fill in the missing numbers:

(a) $\frac{3}{5} = \frac{?}{20}$ (b) $\frac{3}{4} = \frac{?}{100}$

(c) $\frac{3}{7} = \frac{15}{?}$ (d) $\frac{5}{6} = \frac{?}{42}$

(4 marks)

Revision Test 10.2

5. Calculate:

   (a) $\frac{1}{4}$ of 80,

   (b) $\frac{3}{7}$ of 35,

   (c) $\frac{5}{8}$ of 72.

(6 marks)

6. Write these mixed numbers as improper fractions:

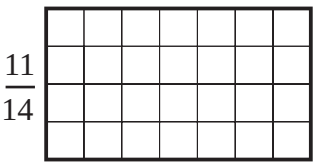
   (a) $4\frac{1}{5}$ (b) $3\frac{6}{7}$

(4 marks)

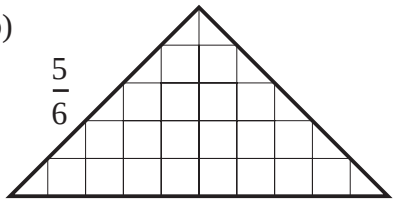
UNIT 10 *Arithmetic: Fractions* — Revision Test 10.3 (Express)

1. Copy each shape and shade the fraction stated:

(a) $\frac{11}{14}$



(b) $\frac{5}{6}$



(4 marks)

2. Write each of these fractions in their simplest form:

(a) $\frac{12}{15}$ (b) $\frac{4}{64}$ (c) $\frac{13}{52}$

(d) $\frac{16}{48}$ (e) $\frac{4}{100}$ (f) $\frac{58}{200}$

(6 marks)

3. Write out these equations and fill in the missing numbers:

(a) $\frac{3}{7} = \frac{?}{49}$ (b) $\frac{5}{9} = \frac{?}{36}$

(c) $\frac{4}{15} = \frac{?}{60}$ (d) $\frac{7}{9} = \frac{56}{?}$

(4 marks)

4. Write these improper fractions as mixed numbers:

(a) $\frac{45}{7}$ (b) $\frac{36}{11}$

(4 marks)

5. Write these mixed numbers as improper fractions:

(a) $3\frac{5}{7}$ (b) $6\frac{3}{11}$

(4 marks)

6. Calculate:

(a) $\frac{3}{4}$ of 72, (b) $\frac{5}{7}$ of 63,

(c) $\frac{5}{11}$ of 77, (d) $\frac{4}{9}$ of 72.

(8 marks)

Revision Test 10.1 (Standard) Answers

1.	(a) A	$\frac{1}{6}$	B1	
	B	$\frac{3}{8}$	B1	
	C	$\frac{6}{7}$	B1	
	D	$\frac{11}{12}$	B1	
	(b) A	$\frac{5}{6}$	B1	
	B	$\frac{5}{8}$	B1	
	C	$\frac{1}{7}$	B1	
	D	$\frac{1}{12}$	B1	*(8 marks)*
2.	(a)	$\frac{2}{3}$ shaded	B1	
	(b)	$\frac{7}{15}$ shaded	B1	
	(c)	$\frac{3}{5}$ shaded	B1	
	(d)	$\frac{7}{9}$ shaded	B1	*(4 marks)*
3.	(a)	$\frac{4}{5}$	B1	
	(b)	$\frac{1}{3}$	B1	
	(c)	$\frac{3}{4}$	B1	
	(d)	$\frac{1}{5}$	B1	
	(e)	$\frac{1}{4}$	B1	
	(f)	$\frac{1}{3}$	B1	*(6 marks)*

Revision Test 10.1

4. (a) $\frac{3}{5} = \frac{15}{25}$ B1

   (b) $\frac{2}{7} = \frac{8}{28}$ B1 *(2 marks)*

5. (a) $\frac{1}{5}$ of $45 = 9$ M1 A1

   (b) $\frac{1}{3}$ of $27 = 9$ M1 A1

   (c) $\frac{2}{3}$ of $24 = 2 \times 8 = 16$ M1 A1

   (d) $\frac{3}{4}$ of $12 = 3 \times 3 = 9$ M1 A1 *(8 marks)*

6. $\frac{7}{7+9} = \frac{7}{16}$ M1 A1 *(2 marks)*

(TOTAL MARKS 30)

Revision Test 10.2 (Academic) Answers

1. (a) A $\frac{4}{7}$ B1

   B $\frac{5}{6}$ B1

   (b) A $\frac{3}{7}$ B1

   B $\frac{1}{6}$ B1 *(4 marks)*

2. (a) $\frac{3}{5}$ shaded M1 A1

   (a) $\frac{5}{8}$ shaded M1 for correct number of parts of equal size M1 A1

   (a) $\frac{4}{7}$ shaded M1 A1 *(6 marks)*

3. (a) $\frac{3}{5}$ B1

   (b) $\frac{1}{5}$ B1

   (c) $\frac{1}{4}$ B1

   (d) $\frac{1}{5}$ B1

   (e) $\frac{2}{5}$ B1

   (f) $\frac{3}{10}$ B1 *(6 marks)*

4. (a) $\frac{3}{5} = \frac{12}{20}$ B1

   (b) $\frac{3}{4} = \frac{75}{100}$ B1

   (c) $\frac{3}{7} = \frac{15}{35}$ B1

   (d) $\frac{5}{6} = \frac{35}{42}$ B1 *(4 marks)*

Revision Test 10.2

5. (a) $\frac{1}{4} \times 80 = 20$ M1 A1

   (b) $\frac{3}{7} \times 35 = 3 \times 5 = 15$ M1 A1

   (c) $\frac{5}{8} \times 72 = 5 \times 9 = 45$ M1 A1 *(6 marks)*

6. (a) $4\frac{1}{5} = \frac{21}{5}$ M1 A1

   (c) $3\frac{6}{7} = \frac{27}{7}$ M1 A1 *(4 marks)*

(TOTAL MARKS 30)

Revision Test 10.3 (Express) Answers

1.	(a) $\frac{11}{14}$ shaded	M1 A1	
	(b) $\frac{5}{6}$ shaded	M1 A1	*(4 marks)*
2.	(a) $\frac{4}{5}$	B1	
	(b) $\frac{1}{16}$	B1	
	(c) $\frac{1}{4}$	B1	
	(d) $\frac{1}{3}$	B1	
	(e) $\frac{1}{25}$	B1	
	(f) $\frac{29}{100}$	B1	*(6 marks)*
3.	(a) $\frac{3}{7} = \frac{21}{49}$	B1	
	(b) $\frac{5}{9} = \frac{20}{36}$	B1	
	(c) $\frac{4}{15} = \frac{16}{60}$	B1	
	(d) $\frac{7}{9} = \frac{56}{72}$	B1	*(4 marks)*
4.	(a) $6\frac{3}{7}$	M1 A1	
	(b) $3\frac{3}{11}$	M1 A1	*(4 marks)*
5.	(a) $\frac{26}{7}$	M1 A1	
	(b) $\frac{69}{11}$	M1 A1	*(4 marks)*

Revision Test 10.3

6. (a) $\frac{3}{4} \times 72 = 3 \times 18 = 54$ M1 A1

(b) $\frac{5}{7} \times 63 = 5 \times 9 = 45$ M1 A1

(c) $\frac{5}{11} \times 77 = 5 \times 7 = 35$ M1 A1

(d) $\frac{4}{9} \times 72 = 4 \times 8 = 32$ M1 A1 *(8 marks)*

(TOTAL MARKS 30)