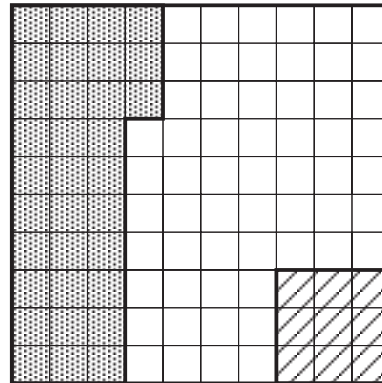


UNIT 17 *Arithmetic: Decimals, Fractions and Percentages*

Revision Test 17.1 (Standard)

1. What percentage of this square is:

- (a) shaded grey,
- (b) shaded with *diagonal lines*,
- (c) *not* shaded?



(4 marks)

2. Convert these decimals to fractions in their simplest form:

- (a) 0.7 (b) 0.09 (c) 0.13
- (d) 0.6 (e) 0.42 (f) 0.08

(9 marks)

3. Convert these fractions to decimals:

- (a) $\frac{3}{10}$ (b) $\frac{7}{100}$ (c) $\frac{3}{5}$

(4 marks)

4. Write these percentages as fractions in their simplest form:

- (a) 50% (b) 40% (c) 90%

(5 marks)

5. Write these numbers in *increasing* order:

0.62, 0.602, 0.26, 0.206, 0.6

(2 marks)

6. Calculate:

- (a) 10% of £20,
- (b) 2% of £300,
- (c) 20% of £80

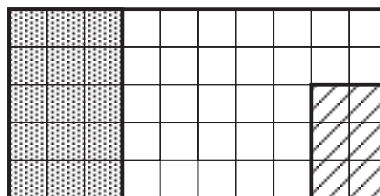
(6 marks)

UNIT 17 *Arithmetic: Decimals, Fractions and Percentages*

Revision Test 17.2 (Academic)

1. What percentage of this rectangle is:

- (a) shaded *grey*,
(b) shaded with *diagonal lines*,
(c) *not* shaded?



(4 marks)

2. Convert these decimals to fractions in their simplest form:

- (a) 0.42 (b) 0.018 (c) 0.72

(6 marks)

3. Convert these fractions to decimals:

- (a) $\frac{3}{5}$ (b) $\frac{3}{20}$ (c) $\frac{13}{200}$

(6 marks)

4. Write these percentages as fractions in their simplest form:

- (a) 25% (b) 74%

(3 marks)

5. In an election, 47% of the population voted. What percentage did *not* vote?

(2 marks)

6. Calculate $0.7 - 0.04$, giving your answer as a decimal *and* as a fraction in its simplest form.

(3 marks)

7. Calculate:

- (a) 20% of £80,
(b) 35% of £40,
(c) 70% of £65.

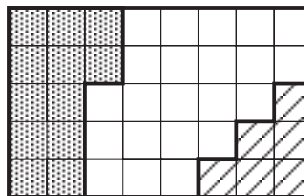
(6 marks)

UNIT 17 *Arithmetic: Decimals, Fractions and Percentages*

Revision Test 17.3 (Express)

1. What percentage of this rectangle is:

- (a) shaded grey,
(b) shaded with *diagonal lines*,
(c) not shaded?



(4 marks)

2. Convert these decimals to fractions in their simplest form:

- (a) 0.024 (b) 0.0824

(4 marks)

3. Convert these fractions to decimals:

- (a) $\frac{4}{25}$ (b) $\frac{7}{40}$ (c) $\frac{4}{125}$

(6 marks)

4. Write these fractions as percentages:

- (a) $\frac{3}{20}$ (b) $\frac{3}{5}$

(2 marks)

5. Write these percentages as fractions in their simplest form:

- (a) 2% (b) 36%

(3 marks)

6. Calculate:

- (a) 70% of £65,
(b) 35% of 40 kg,
(c) 85% of £90.

(6 marks)

7. People taking part in a survey were asked to taste 3 drinks and choose their favourite. Of these people, 28% chose drink A and 49% chose drink B. What percentage of the people chose drink C?

(2 marks)

8. Calculate $0.8 - 0.002$, giving your answer as a decimal and as a fraction in its simplest form.

(3 marks)

Revision Test 17.1 (Standard)

Answers

- | | | | |
|--------|----------------------------------|-------|-----------|
| 1. (a) | 33% | B1 | |
| (b) | 9% | B1 | |
| (d) | $100 - 33 - 9 = 58\%$ | B2 | (4 marks) |
| 2. (a) | $\frac{7}{10}$ | B1 | |
| (b) | $\frac{9}{100}$ | B1 | |
| (c) | $\frac{13}{100}$ | B1 | |
| (d) | $\frac{6}{10} = \frac{3}{5}$ | M1 A1 | |
| (e) | $\frac{42}{100} = \frac{21}{50}$ | M1 A1 | |
| (f) | $\frac{8}{100} = \frac{2}{25}$ | M1 A1 | (9 marks) |
| 3. (a) | 0.3 | B1 | |
| (b) | 0.07 | B1 | |
| (c) | 0.6 | B2 | (4 marks) |
| 4. (a) | $\frac{1}{2}$ | B1 | |
| (b) | $\frac{40}{100} = \frac{2}{5}$ | M1 A1 | |
| (c) | $\frac{90}{100} = \frac{9}{10}$ | M1 A1 | (5 marks) |
| 5. | 0.206, 0.26, 0.6, 0.602, 0.62 | B1 B1 | (2 marks) |
| 6. (a) | £2 | B2 | |
| (b) | £6 | B2 | |
| (c) | £16 | B2 | (6 marks) |

(TOTAL MARKS 30)

Revision Test 17.2 (Academic)

Answers

1.	(a)	30%	B1	
	(b)	12%	B1	
	(d)	$100 - 30 - 12 = 58\%$	B2	(4 marks)
2.	(a)	$\frac{42}{100} = \frac{21}{50}$	M1 A1	
	(b)	$\frac{18}{1000} = \frac{9}{500}$	M1 A1	
	(c)	$\frac{72}{100} = \frac{18}{25}$	M1 A1	(6 marks)
3.	(a)	$\frac{6}{10} = 0.6$	B2	
	(b)	$\frac{15}{100} = 0.15$	B2	
	(c)	$\frac{65}{1000} = 0.065$	B2	(6 marks)
4.	(a)	$\frac{1}{4}$	B1	
	(b)	$\frac{74}{100} = \frac{37}{50}$	M1 A1	(3 marks)
5.		$100 - 47 = 53\%$	M1 A1	(2 marks)
6.		$0.66 = \frac{66}{100} = \frac{33}{50}$	B1 M1 A1	(3 marks)
7.	(a)	£16	B2	
	(b)	£14	B2	
	(c)	£45.50	B2	(6 marks)
				(TOTAL MARKS 30)

Revision Test 17.3 (Express)

Answers

- | | | | |
|--------|----------------------------------------------|----------|-----------|
| 1. (a) | 30% | B1 | |
| (b) | 15% | B1 | |
| (d) | $100 - 30 - 15 = 55\%$ | B2 | (4 marks) |
| 2. (a) | $\frac{24}{1000} = \frac{3}{125}$ | M1 A1 | |
| (b) | $\frac{824}{10\ 000} = \frac{103}{1250}$ | M1 A1 | (4 marks) |
| 3. (a) | $\frac{16}{100} = 0.16$ | B2 | |
| (b) | $\frac{7}{40} = \frac{175}{1000} = 0.175$ | B2 | |
| (c) | $\frac{4}{125} = \frac{32}{1000} = 0.032$ | B2 | (6 marks) |
| 4. (a) | 15% | B1 | |
| (b) | 60% | B1 | (2 marks) |
| 5. (a) | $\frac{1}{50}$ | B1 | |
| (b) | $\frac{36}{100} = \frac{9}{25}$ | M1 A1 | (3 marks) |
| 6. (a) | £45.50 | B2 | |
| (b) | 14 kg | B2 | |
| (c) | £76.50 | B2 | (6 marks) |
| 7. | $100 - 49 - 28 = 23\%$ | M1 A1 | (2 marks) |
| 8. | $0.798 = \frac{798}{1000} = \frac{399}{500}$ | B1 M1 A1 | (3 marks) |

(TOTAL MARKS 30)