

Year 10  
Set 3  
Summer Work 2018

## GCSE Preparation

Name: \_\_\_\_\_

Due: Friday 7<sup>th</sup> September

**Answer in your homework book.**

# INTEGERS, RECIPROCAL, FACTORS, MULTIPLES AND PRIME NUMBERS

## Make 100

**1**  $66 + \underline{\quad} = 100$

**2**  $41 + \underline{\quad} = 100$

**3**  $39 + \underline{\quad} = 100$

**4**  $19 + \underline{\quad} = 100$

**5**  $96 + \underline{\quad} = 100$

**6**  $10 + \underline{\quad} = 100$

**7**  $78 + \underline{\quad} = 100$

**8**  $8 + \underline{\quad} = 100$

**9**  $44 + \underline{\quad} = 100$

**10**  $54 + \underline{\quad} = 100$

**11**  $13 + \underline{\quad} = 100$

**12**  $7 + \underline{\quad} = 100$

**13**  $83 + \underline{\quad} = 100$

**14**  $4 + \underline{\quad} = 100$

**15**  $82 + \underline{\quad} = 100$

## Times tables

**1**  $2 \times 9 = \underline{\quad}$

**2**  $2 \times 8 = \underline{\quad}$

**3**  $6 \times 3 = \underline{\quad}$

**4**  $10 \times 4 = \underline{\quad}$

**5**  $3 \times 5 = \underline{\quad}$

**6**  $5 \times 4 = \underline{\quad}$

**7**  $2 \times 5 = \underline{\quad}$

**8**  $7 \times 3 = \underline{\quad}$

**9**  $7 \times 4 = \underline{\quad}$

**10**  $9 \times 8 = \underline{\quad}$

**11**  $10 \times 6 = \underline{\quad}$

**12**  $3 \times 3 = \underline{\quad}$

**13**  $4 \times \underline{\quad} = 12$

**14**  $5 \times \underline{\quad} = 25$

**3**  $8 \times \underline{\quad} = 8$

## Division

**1**  $63 \div 9 = \underline{\quad}$

**2**  $24 \div 3 = \underline{\quad}$

**3**  $10 \div 5 = \underline{\quad}$

**4**  $32 \div 8 = \underline{\quad}$

**5**  $24 \div 6 = \underline{\quad}$

**6**  $21 \div 3 = \underline{\quad}$

**7**  $30 \div 6 = \underline{\quad}$

**8**  $6 \div 1 = \underline{\quad}$

**9**  $18 \div 3 = \underline{\quad}$

**10**  $5 \div 5 = \underline{\quad}$

**11**  $9 \div 9 = \underline{\quad}$

**12**  $10 \div 2 = \underline{\quad}$

**13**  $12 \div \underline{\quad} = 4$

**14**  $56 \div \underline{\quad} = 8$

**3**  $64 \div \underline{\quad} = 8$

## EXAM QUESTION

Here is a list of numbers: 17 28 36 45 57 68 72 86

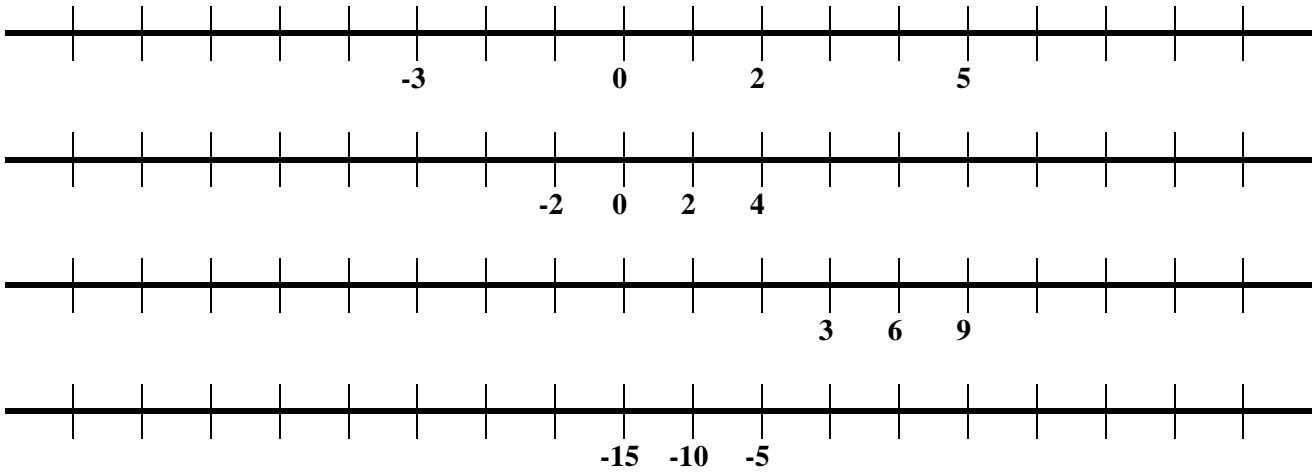
From this list, write down

(a) two numbers which have a total of 100 (1 mark)

(b) two numbers which have a difference of 50, (1 mark)

(c) the number which is the product of 5 and 9. (1 mark)

**NEGATIVE NUMBERS** - Complete the number lines:



**ORDERING INTEGERS** - Put each list in order, smallest to biggest.

- |          |     |     |     |     |     |     |     |     |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>1</b> | 2   | 10  | -12 | -3  | -1  | -11 | 4   | 1   |
| <b>2</b> | -10 | 12  | 10  | -5  | 5   | 6   | 3   | 1   |
| <b>3</b> | -3  | 0   | -8  | 6   | 5   | 8   | 1   | 3   |
| <b>4</b> | 12  | -11 | -6  | -4  | 10  | -1  | -12 | -2  |
| <b>5</b> | -8  | 23  | 1   | -25 | 19  | -15 | -9  | 2   |
| <b>6</b> | 1   | -2  | 22  | -20 | 21  | 25  | 17  | 18  |
| <b>7</b> | -25 | -21 | 11  | 20  | -5  | 5   | 24  | -22 |
| <b>8</b> | -17 | -21 | -10 | -5  | -11 | -7  | 20  | 11  |

**EXAM QUESTION**

The temperature, in °C, at midday at the theme park on 6 winter days was recorded.

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Temperature	-3	-2	0	-4	-1	1

(i) Which day was the warmest at midday?

Answer ..... (1 mark)

(ii) Which day was the coldest at midday?

Answer ..... (1 mark)

Addition and Subtraction with negative numbers

- |           |                  |           |                   |           |                  |
|-----------|------------------|-----------|-------------------|-----------|------------------|
| <b>1</b>  | $3 + -1 =$ _____ | <b>2</b>  | $6 + -4 =$ _____  | <b>3</b>  | $4 + -1 =$ _____ |
| <b>4</b>  | $9 + -5 =$ _____ | <b>5</b>  | $5 + -1 =$ _____  | <b>6</b>  | $1 + -4 =$ _____ |
| <b>7</b>  | $2 + -4 =$ _____ | <b>8</b>  | $6 + -2 =$ _____  | <b>9</b>  | $2 + -5 =$ _____ |
| <b>10</b> | $2 - 9 =$ _____  | <b>11</b> | $5 - 1 =$ _____   | <b>12</b> | $2 - 7 =$ _____  |
| <b>13</b> | $5 - 10 =$ _____ | <b>14</b> | $3 - 3 =$ _____   | <b>15</b> | $4 - 6 =$ _____  |
| <b>16</b> | $2 - 5 =$ _____  | <b>17</b> | $4 - 5 =$ _____   | <b>18</b> | $5 - 9 =$ _____  |
| <b>17</b> | $-6 + 5 =$ _____ | <b>20</b> | $-5 + 1 =$ _____  | <b>21</b> | $-4 + 2 =$ _____ |
| <b>20</b> | $-6 + 3 =$ _____ | <b>23</b> | $-5 + -5 =$ _____ | <b>24</b> | $-9 + 3 =$ _____ |
| <b>23</b> | $-7 + 3 =$ _____ | <b>26</b> | $-3 + 4 =$ _____  | <b>27</b> | $-8 + 2 =$ _____ |

Multiplication and Division with negative numbers

- |           |                       |           |                       |           |                        |
|-----------|-----------------------|-----------|-----------------------|-----------|------------------------|
| <b>1</b>  | $7 \times -2 =$ _____ | <b>2</b>  | $2 \times -2 =$ _____ | <b>3</b>  | $8 \times -1 =$ _____  |
| <b>4</b>  | $4 \times -2 =$ _____ | <b>5</b>  | $1 \times -3 =$ _____ | <b>6</b>  | $7 \times -4 =$ _____  |
| <b>7</b>  | $8 \times -1 =$ _____ | <b>8</b>  | $2 \times -3 =$ _____ | <b>9</b>  | $1 \times -4 =$ _____  |
| <b>10</b> | $-1 \times 8 =$ _____ | <b>11</b> | $-5 \times 7 =$ _____ | <b>12</b> | $-5 \times 7 =$ _____  |
| <b>13</b> | $-21 \div -3 =$ _____ | <b>14</b> | $-8 \div -1 =$ _____  | <b>15</b> | $-80 \div -10 =$ _____ |
| <b>16</b> | $-10 \div -5 =$ _____ | <b>17</b> | $-10 \div -2 =$ _____ | <b>18</b> | $-5 \div -5 =$ _____   |
| <b>17</b> | $-30 \div 10 =$ _____ | <b>20</b> | $-14 \div 2 =$ _____  | <b>21</b> | $-36 \div 4 =$ _____   |
| <b>20</b> | $-4 \div 2 =$ _____   | <b>23</b> | $-63 \div 7 =$ _____  | <b>24</b> | $-27 \div 9 =$ _____   |

### BIDMAS

Follow the correct order of operations to calculate the following:

1.  $5 + 2 \times 3 = \underline{\quad}$

2.  $10 \div 2 + 7 = \underline{\quad}$

3.  $7 + 9 \div 3 = \underline{\quad}$

4.  $2 \times 3 + 7 \times 2 = \underline{\quad}$

5.  $8 \div 4 - 2 \times 1 = \underline{\quad}$

6.  $5 \times 10 + 9 \div 1 = \underline{\quad}$

7.  $2 + 4 \times 4 + 1 = \underline{\quad}$

8.  $(2 + 4) \times 8 = \underline{\quad}$

9.  $(3 - 1) \times (9 - 4) = \underline{\quad}$

10.  $30 - (7 + 6) = \underline{\quad}$

11.  $20 - (4 + 10) = \underline{\quad}$

12.  $(5 + 9) \div (2 \times 1) = \underline{\quad}$

### BRACKETS

Put brackets into the questions to make them correct.

1.  $2 + 2 \times 3 = 12$

2.  $4 - 1 \times 7 = 21$

3.  $2 + 1 \times 1 + 2 = 9$

4.  $9 \div 3 \times 2 + 1 = 9$

5.  $50 \div 7 + 3 = 10$

6.  $6 + 2 \times 4 + 3 = 51$

### 1234

Use the digits 1, 2, 3, and 4 to make correct calculations. Use brackets where appropriate.

1 = \_\_\_\_\_

2 = \_\_\_\_\_

3 = \_\_\_\_\_

4 = \_\_\_\_\_

5 = \_\_\_\_\_

6 = \_\_\_\_\_

7 = \_\_\_\_\_

8 = \_\_\_\_\_

9 = \_\_\_\_\_

10 = \_\_\_\_\_

### EXAM QUESTION

(a) Work out  $12 - (3 + 7)$

(b) Put brackets in each of these calculations to make them correct.

(i)  $18 - 4 - 2 = 16$

(ii)  $3 + 4 \times 5 = 35$

(iii)  $20 \div 5 - 3 = 10$

### PRIME NUMBERS

Answer TRUE or FALSE:

- |     |                                |     |   |    |                      |
|-----|--------------------------------|-----|---|----|----------------------|
| 1.  | 2 is a prime number            | 2.  | 9 is a prime number                           | 3. | 15 is a prime number |
| 4.  | 7 is a prime number            | 5.  | 19 is a prime number                          | 6. | 23 is a prime number |
| 7.  | 21 is a prime number           | 8.  | 8 is a prime number                           | 9. | 27 is a prime number |
| 10. | 3 is the smallest prime number | 11. | There are four prime numbers between 1 and 10 |    |                      |
| 12. | 99 is a prime number           | 13. | There are three primes between 20 and 30      |    |                      |

### PRIME FACTORS

Write each number as a product of its' prime factors:

- |    |     |    |    |    |    |    |    |
|----|-----|----|----|----|----|----|----|
| 1. | 21  | 2. | 12 | 3. | 36 | 4. | 50 |
| 5. | 150 | 6. | 54 | 7. | 49 | 8. | 84 |

## RECIPROCAL

Write down the reciprocal of each number

1. 3

2. 2

3. 5

4.  $\frac{1}{4}$

5.  $\frac{1}{2}$

6. 10

7.  $\frac{1}{8}$

8.  $\frac{1}{9}$

9. 5

10.  $\frac{2}{3}$

11.  $\frac{3}{4}$

12. 6

## EXAM QUESTIONS

1. The letters  $a$  and  $b$  represent prime numbers.  
Give an example to show that  $a + b$  is **not** always an even number.
2. Write 28 as the product of its prime factors.
3. Write 18 as the product of its prime factors.
4. Write 75 as the product of its prime factors.

FACTORS - Write down all the factors of each number:

- |    |    |    |    |    |    |    |    |     |    |
|----|----|----|----|----|----|----|----|-----|----|
| 1. | 8  | 2. | 12 | 3. | 9  | 4. | 16 | 5.  | 20 |
| 6. | 15 | 7. | 7  | 8. | 14 | 9. | 30 | 10. | 36 |

EXAM QUESTIONS

1. Here is a list of numbers

6    8    11    15    25    28    30    33

From this list, write down

- (a) a multiple of 7,
  - (b) the two factors of 24,
  - (c) a square number,
  - (d) a prime number.
2. Tick a box to say if each of the following statements is true or false.

	True	False
7 and 23 are both odd numbers	<input type="checkbox"/>	<input type="checkbox"/>
The sum of 7 and 23 is an odd number	<input type="checkbox"/>	<input type="checkbox"/>
7 is a factor of 23	<input type="checkbox"/>	<input type="checkbox"/>
23 minus 7 is a square number	<input type="checkbox"/>	<input type="checkbox"/>

3. From the list of numbers

6    8    11    21    25    29    34

write down

- (i) two numbers with a sum of 31
- (ii) two numbers with a difference of 26
- (iii) a multiple of 7
- (iv) a factor of 24
- (v) a square number



### Multiples

Write down the first six multiples of each number:

- |    |    |    |    |    |   |    |    |
|----|----|----|----|----|---|----|----|
| 1. | 4  | 2. | 3  | 3. | 7 | 4. | 9  |
| 5. | 15 | 6. | 12 | 7. | 8 | 8. | 11 |

### Highest Common Factor

Find the Lowest Common Factor (HCF) for each pair of numbers.

- |    |            |    |           |    |           |
|----|------------|----|-----------|----|-----------|
| 1. | 36 and 10  | 2. | 50 and 30 | 3. | 45 and 27 |
| 4. | 100 and 36 | 5. | 88 and 56 | 6. | 36 and 32 |

### Lowest Common Multiple

Find the Highest Common Multiple (LCM) for each pair of numbers.

- |    |          |    |          |    |          |
|----|----------|----|----------|----|----------|
| 1. | 6 and 9  | 2. | 5 and 15 | 3. | 12 and 8 |
| 4. | 2 and 11 | 5. | 12 and 8 | 6. | 5 and 9  |

### EXAM QUESTIONS

- (a) Write down two multiples of 4.  
Answer ..... and ..... (1 mark)

(b) Write down two multiples of 7.  
Answer ..... and ..... (1 mark)

(c) Write down a number which is a multiple of both 4 and 7.  
Answer ..... (1 mark)
- Find the least common multiple (LCM) of 28 and 42.
- What is the least common multiple (LCM) of 12 and 18?
- Find the Highest Common Factor (HCF) of 108 and 72.

## ROUNDING AND APPROXIMATIONS

### ROUNDING

Write each number to the given degree of accuracy.

- |                       |                        |                         |
|-----------------------|------------------------|-------------------------|
| 1. 128 (nearest 10)   | 2. 329 (nearest 100)   | 3. 691 (nearest 100)    |
| 4. 135 (nearest 10)   | 5. 750 (nearest 100)   | 6. 8350 (nearest 1000)  |
| 7. 725 (nearest 100)  | 8. 8500 (nearest 1000) | 9. 790 (nearest 1000)   |
| 10. 5692 (nearest 10) | 11. 5692 (nearest 100) | 12. 5692 (nearest 1000) |

### DECIMAL PLACES

1. Write each number correct to 1 decimal place

- a) 7.92                      b) 16.67                      c) 2.35                      d) 8.251                      e) 12.85

2. Use a calculator to work out the answers and write them down correct to 1 decimal place.

- a)  $2.2 \times 8.1$                       b)  $5.25 \times 7$                       c)  $9.12 \times 9$                       d)  $9.5 \times 7.3$                       e)  $9.13 \times 7.75$

3. Write each number correct to 2 decimal places

- a) 5.622                      b) 9.456                      c) 3.126                      d) 3.121                      e) 9.455

### EXAM QUESTIONS

1. The populations of three towns are given below.

**Arton** 15 748      **Barton** 9682      **Carton** 12 403

- (a) Write the number 15 748 to the nearest thousand.
2. The number of spectators at a football match is 12 584.
- (a) Write the number 12 584 in words.
- (b) In the number 12 584, write down the value of
- (i) the figure 8,
- (ii) the figure 2.
- (c) Write 12 584 to the nearest 100.
- 3.
- (a) Write seven million in figures.
- (b) Write seven thousand and eighty-four in figures.
- (c) Write 8736 to the nearest 10.
- 4.
- Round 723 to the nearest ten.

## ESTIMATING

Copy the lists below and match up the questions to the estimated answers. The first one has been done for you.

<u>QUESTIONS</u>	<u>ESTIMATED ANSWERS</u>
$3.92 \times 5.05$	3
$6.9 \times 2.9$	100
$30.1 \div 9.91$	11.4
$\sqrt{32}$	15
$(8.8 + 11.11) \times 4.9$	40
$50 \div 7.21$	7
$\sqrt{103}$	8
$4.05 \times (6.9 + 2.9)$	20
$67 \div 8.12$	12.2
$\sqrt{150}$	5.5

## EXAM QUESTIONS

1. Kim buys 71 stamps which cost 19 pence each.

By using suitable approximations, **estimate** the total cost of the stamps.  
You **must** show your working.

2. Estimate the cost of 20 meals at £2.97 each.

3. Liam wants to calculate  $\frac{27.89 + 20.17}{3.91}$

- (a) Write each of the numbers in Liam's calculation to the nearest whole number.  
(b) Use your numbers from part (a) to estimate the answer to Liam's calculation.

4. Find an approximate value of  $\frac{2987}{21 \times 49}$

You **must** show all your working.

### SIGNIFICANT FIGURES

1. Write each number correct to one significant figure.

- a) 27      b) 832      c) 8.12      d) 93      e) 77      f) 13.5      g) 95

2. Use a calculator to work out the answers and write them down correct to 1 significant figure.

- a)  $50 \times 23$       b)  $5.25 \times 7$       c)  $910 \times 12$       d)  $9.5 \times 7.3$       e)  $93 \times 77$

3. Write each number correct to two significant figures.

- a) 275      b) 0.03451      c) 8.12      d) 0.956      e) 7.04      f) 7.05      g) 959

### ESTIMATING CALCULATIONS

By approximating each number, estimate the answers to these calculations. You must show how you reached your estimate.

1. 
$$\frac{4.9 + 15.21}{1.9}$$

2. 
$$\frac{19.89 \times 5.2}{1.05 + 9.03}$$

3. 
$$\sqrt{4.05 \times 4.9 \times 5.09}$$

### EXAM QUESTIONS

1. Find an approximate value of  $\frac{41 \times 197}{78}$

You **must** show all your working.

2. Calculate the value of

$$\frac{8.4 - 3.79}{11.62 - 15.89}$$

- (a) Write down the full calculator display.  
(b) Give your answer to three significant figures.
3. Hannah, Gemma and Jo use their calculators to work out the value of

$$\frac{28.78}{4.31 \times 0.47}$$

Hannah gets 142.07, Gemma gets 14.207 and Jo gets 3.138

Use approximations to show which one of them is correct.  
You **must** show your working.

ROUNDING IN CALCULATIONS

Give your final answer to each question correct to two decimal places.  
Remember not to round during the intermediate steps of the calculation.

1.  $\frac{6.2 + 3.09}{3.2 \times 8.91}$

2.  $\sqrt{\frac{4.9}{1.2 \times 3.8}}$

3.  $\frac{9}{2.17} + \frac{8.14}{0.515}$

4.  $\frac{9.054 - 0.973}{6.3 \times 0.00462}$

5.  $\frac{7.56^3}{\sqrt{3.9 \times 9.017}}$

6.  $5 + \sqrt{3.2^2 - 2.1 \times 9.2 \times 1.1}$

HIGHEST AND LOWEST

- The length of a pencil is given as 9cm to the nearest cm.  
What is the minimum length that the pencil could be?
- The height of a door is 210cm to the nearest 10cm.  
What is the maximum height that the door could be?
- The width of a piece of paper is given as 18.4cm correct to one decimal place.
  - What is the minimum width that the paper could be?
  - What is the maximum width that the paper could be?

EXAM QUESTIONS

1. (i) Calculate  $\frac{9.8}{6.7 - 1.2}$

Answer .....

(ii) Give your answer to an appropriate degree of accuracy.

Answer .....

2. The scales at an airport weigh luggage to the nearest kilogram.  
What are the greatest and least possible weights of a case showing 25 kg on the scale?

.....

Answer Greatest ..... kg

Least ..... kg

3. Calculate the value of

$$\frac{8.4 - 3.79}{11.62 - 15.89}$$

- Write down the full calculator display.
- Give your answer to three significant figures.

## WHOLE NUMBER AND DECIMAL CALCULATIONS

### DECIMAL PLACE VALUE

1. Write down the value of the underlined digits:

- a) 6.24      b) 7.132      c) 19.456      d) 3.20      e) 7.091

### ORDERING DECIMALS

Put each list of numbers in order from smallest to biggest.

1	6.8	6.83	6.1	6.55	6.9	6.7	6.5	6.26
2	4.28	4.8	4.66	4.4	4.57	4.7	4.77	4.9
3	1.3	1.6	1.6	1.55	1.84	1.1	1.62	1.22
4	2.61	2.1	2.83	2.45	2.35	2.31	2.11	2.9
5	9.61	9.4	9.21	9.83	9.3	9.8	9.34	9.4
6	8.7	8.82	8.77	8.86	8.27	8.45	8.3	8.5
7	7.4	7.8	7.9	7.56	7.11	7.67	7.38	7.29
8	1.41	1.3	1.39	1.8	1.6	1.96	1.11	1.71
9	2.53	2.6	2.45	2.21	2.6	2.7	2.35	2.19
10	9.77	9.19	9.81	9.39	9.5	9.19	9.3	9.1

### EXAM QUESTIONS

- Write down a decimal number that is between 1.5 and 1.6
- Place the following numbers in order of size, starting with the smallest.

$2\frac{3}{5}$

$2.08$

$1.5^2$

$2.237$

$2.64$

### ADDITION (WHOLE NUMBERS)

$$\begin{array}{r} 1) \quad 5 \quad 6 \\ \quad 3 \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 4 \quad 7 \\ \quad 2 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 6 \quad 8 \\ \quad 3 \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 4 \quad 1 \quad 2 \\ \quad 3 \quad 7 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 6 \quad 3 \quad 8 \\ \quad 2 \quad 6 \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 5 \quad 9 \quad 9 \\ \quad 3 \quad 2 \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 7 \quad 1 \quad 1 \\ \quad 2 \quad 9 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 8 \quad 3 \quad 8 \\ \quad 2 \quad 7 \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 5 \quad 3 \quad 9 \\ \quad 4 \quad 9 \quad 2 \\ \hline \end{array}$$

### SUBTRACTION (WHOLE NUMBERS)

$$\begin{array}{r} 1) \quad 5 \quad 6 \\ \quad 3 \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 4 \quad 7 \\ \quad 2 \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 6 \quad 8 \\ \quad 3 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 4 \quad 8 \quad 4 \\ \quad 3 \quad 7 \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 6 \quad 3 \quad 8 \\ \quad 2 \quad 2 \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 5 \quad 9 \quad 2 \\ \quad 3 \quad 2 \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 7 \quad 7 \quad 9 \\ \quad 2 \quad 9 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 8 \quad 5 \quad 8 \\ \quad 2 \quad 7 \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 5 \quad 2 \quad 1 \\ \quad 4 \quad 3 \quad 2 \\ \hline \end{array}$$

### EXAM QUESTIONS

1. Work out

(a)  $426 + 37 + 384$

(b)  $800 - 472$

2.

A youth club hires a disco for £70.  
Tickets for the disco cost 80p each.  
They sell 140 tickets.

**Friday night  
DISCO  
Tickets 80p**

How much profit does the youth club make?

### ADDITION (DECIMALS)

For each question, use a written method to calculate the answer.

<b>1</b>	$29.7 + 24.9$	<b>2</b>	$25 + 45.7$	<b>3</b>	$36.1 + 12.7$
<b>4</b>	$20.6 + 7.7$	<b>5</b>	$35.7 + 2.5$	<b>6</b>	$18.2 + 30.9$
<b>7</b>	$20.78 + 39.2$	<b>8</b>	$31.3 + 4.1$	<b>9</b>	$8.63 + 33.9$
<b>10</b>	$8.96 + 33.6$	<b>11</b>	$48.5 + 38.98$	<b>12</b>	$22.8 + 19.4$
<b>13</b>	$21.62 + 46.9$	<b>14</b>	$11.5 + 14.94$	<b>15</b>	$40.3 + 30.39$

### SUBTRACTION (DECIMALS)

For each question, use a written method to calculate the answer.

<b>1</b>	$66.7 - 44.4$	<b>2</b>	$75.3 - 6$	<b>3</b>	$59.7 - 18.1$
<b>4</b>	$68.8 - 30$	<b>5</b>	$60.6 - 38.6$	<b>6</b>	$68.5 - 8.3$
<b>7</b>	$75.95 - 16.9$	<b>8</b>	$61.7 - 33.3$	<b>9</b>	$73.3 - 26.8$
<b>10</b>	$61.14 - 8.6$	<b>11</b>	$69.2 - 38.36$	<b>12</b>	$89 - 18.4$
<b>13</b>	$65.07 - 23.5$	<b>14</b>	$50.9 - 32.27$	<b>15</b>	$73.1 - 8.65$

### EXAM QUESTIONS

1. Work out

(a)  $5.4 - 1.28$

2.



- (a) (i) Arnie orders a burger and fries.  
How much does this cost?
- (ii) He pays with a £5 note.  
How much change does he get?



### MULTIPLICATION AND DIVISION (WHOLE NUMBERS)

<b>1</b>	$14 \times 8$	<b>2</b>	$24 \times 3$	<b>3</b>	$31 \times 5$
<b>4</b>	$62 \times 9$	<b>5</b>	$39 \times 7$	<b>6</b>	$66 \times 4$
<b>7</b>	$26 \times 15$	<b>8</b>	$26 \times 16$	<b>9</b>	$63 \times 22$
<b>10</b>	$21 \div 7$	<b>11</b>	$50 \div 5$	<b>12</b>	$30 \div 6$
<b>13</b>	$115 \div 5$	<b>14</b>	$128 \div 8$	<b>15</b>	$126 \div 6$
<b>16</b>	$234 \div 18$	<b>17</b>	$396 \div 18$	<b>18</b>	$285 \div 19$

### MULTIPLYING DECIMALS

<b>1</b>	$1.5 \times 6$	<b>2</b>	$7.5 \times 4$	<b>3</b>	$2.8 \times 5$
<b>4</b>	$4 \times 0.6$	<b>5</b>	$4.3 \times 3.7$	<b>6</b>	$7.7 \times 1.5$

### DIVIDING WITH DECIMALS

<b>1</b>	$2.7 \div 3$	<b>2</b>	$5.4 \div 6$	<b>3</b>	$3.5 \div 5$
<b>4</b>	$24 \div 0.8$	<b>5</b>	$54 \div 0.6$	<b>6</b>	$15 \div 0.5$

### EXAM QUESTION

- $132 \times 8$
- $0.2 \times 0.4$
- Cans of cola are sold in packs of six.  
Each pack costs £2.18  
Sam buys eight packs of cola.
  - How many cans does he buy altogether?
  - How much does Sam pay for the eight packs?
  - Sam pays for the packs with a £20 note.  
How much change is he given?
- A box of pencils costs £2.50  
Mr Hebson orders 48 boxes for the Mathematics Department.  
Find the total cost.
- $3.64 \times 2 + 13.7$