Grangemouth High School

CfE Level 2
Numeracy Worksheets

CfE Level 2 Worksheets Topics Covered

Cfe Experiences and Outcomes	Topics
Estimation and Rounding I can use my knowledge of rounding to estimate the answer to a problem, then after calculating, decide if my Answer is reasonable, sharing my solution with others **MNU 2-01a**	Round to the nearest 10 and 100 Round to the nearest whole number Round to 1 decimal place Using rounding to estimate answers
Number and Number Processes I have extended the range of whole numbers I can work with and having explored how decimal fractions are constructed, can explain the link between a digit, its place and its value **MNU 2-02a**	Understand place value for numbers up to 1 000 000 and beyond Add and subtract numbers with up to 4 digits Multiply a number with up to 5 digits by a single digit Divide a number with up to 5 digits by a single digit Multiply a whole number by 10, 100, 1000 Divide a whole number by 10, 100, 1000 Find the basic fraction of a quantity Find any fraction of a quantity Add or subtract decimal numbers Multiply decimals by 10, 100, 1000 Divide decimals by 10, 100, 1000 Multiply a decimal by a single digit Divide a decimal by a single digit Multiply whole numbers by multiples of 10,100, 1000 Divide whole numbers by multiples of 10, 100, 1000 BIDMAS – Order of operations To be able to multiply decimals by multiples of 10, 100, 1000 Long multiplication Integers Common percentages
Having determined which calculations are Needed, I can solve problems involving whole numbers using a range of methods, sharing my approaches and solutions with others **MNU 2-03a**	
I have explored the contexts in which problems involving decimal fractions occur and can solve related problems using a variety of methods **MNU 2-03b**	
I have investigated the everyday contexts in which simple fractions, percentages or decimals fractions are used and can carry out the necessary calculations to sole related problems **MNU 2-07a**	

CfE Level 2

Exercise 1

1) Write the following numbers fully using digits	
(a) Three hundred and seven	(b) Four thousand and four

2) Round the following numbers to the nearest 10		
(a) 24	(b) 837	(c) 3805

3) 46 + 38 =	4) 480 ÷ 6 =	5) 6 x _____ = 54
6) 64 - 28 =	7) 240+180 =	8) 54 x 10 =
9) 13 x 5 =	10) 780 ÷ 10 =	11) 360 – 210 =

12) 134 x 8	13) 326 – 112	14) $\frac{1}{4}$ of 244
Working:	Working:	Working:
Answer:	Answer:	Answer:

15) 334 + 454	16) 495 ÷ 5	17) 525 x 9
Working:	Working:	Working:
Answer:	Answer:	Answer:

CfE Level 2

Exercise 2

1) Write the following numbers fully using digits	
(a) Seven hundred and thirteen	(b) Nine thousand and ten

2) Round the following numbers to the nearest 10		
(a) 33	(b) 786	(c) 4501

3) 25 + 27 =	4) 58 ÷ 2 =	5) 7 x _____ = 63
6) 86 - 37 =	7) 320 + 290 =	8) 63 x 10 =
9) 12 x 5 =	10) 120 ÷ 10 =	11) 450 – 320 =

12) 122 x 6	13) 566 – 304	14) $\frac{1}{4}$ of 128
Working:	Working:	Working:
Answer:	Answer:	Answer:

15) 246 + 778	16) 410 ÷ 5	17) 342 x 8
Working:	Working:	Working:
Answer:	Answer:	Answer:

CfE Level 2

Exercise 3

1) Put the following sets of numbers in order, smallest first :-

462, 408, 399, 503, 453, 512, 403, 605, 494

2) What do the following digits stand for in the number 5294

(a) 5	(b) 2	(c) 9	(d) 4

3) 65 + 85 =

4) 540 ÷ ____ = 60

5) 12 x _____ = 72

6) 180 - 49 =

7) 310 + 190 =

8) 78 x 100 =

9) 14 x 5 =

10) 8300 ÷ 100 =

11) 5600 – 2700=

12) 273 x 7

Working:

Answer:

13) 5062 – 3436

Working:

Answer:

14) $\frac{1}{2}$ of 580

Working:

Answer:

15) 783 ÷ 9

Working:

Answer:

16) 239 x 8

Working:

Answer:

17) 7 x 326

Working:

Answer:

CfE Level 2

Exercise 4

1) Put the following sets of numbers in order, smallest first :-

873, 808, 899, 901, 838, 908, 870, 807, 841

2) What do the following digits stand for in the number 38 067

(a) 8	(b) 3	(c) 6	(d) 7

3) 72 + 18 =

4) 72 ÷ ____ = 9

5) 34 x 100 =

6) 175 - 35 =

7) 420 + 360 =

8) 170 ÷ 10 =

9) 13 x 4 =

10) 2800 ÷ 100 =

11) 7 x 8 =

12) 324 x 4

Working:

Answer:

13) 4588 – 362

Working:

Answer:

14) $\frac{1}{2}$ of 270

Working:

Answer:

15) 625 ÷ 5

Working:

Answer:

16) 216 x 3

Working:

Answer:

17) 6 x 276

Working:

Answer:

CfE Level 2

Exercise 5

1) Put the following sets of numbers in order, smallest first :-

5075, 5170, 4989, 5084, 5109, 5230, 5189, 6006

2) Round the following numbers to the nearest 100 :-

(a) 531	(b) 5081	(c) 7709	(d) 98 899

3) 75 + 76 =

4) 8 x 9 =

5) 80 + 79 =

6) 540 - 180 =

7) 56 ÷ 8 =

8) 73 x 100 =

9) 13 x 7 =

10) 230 ÷ 10 =

11) 5800 – 3700=

12) 3526 x 8

Working:

Answer:

13) 8023 – 4187

Working:

Answer:

14) $\frac{1}{3}$ of 381

Working:

Answer:

15) 1428 ÷ 6

Working:

Answer:

16) 5762 x 7

Working:

Answer:

17) 8 x 509

Working:

Answer:

CfE Level 2

Exercise 6

1) Round the following numbers to the nearest whole number :-

(a) 1.8	(b) 5.4	(c) 6.23	(d) 33.64

2) 38 + 92 =

3) 9 x 12 =

4) 60 + 134 =

5) 780 - 440 =

6) 64 ÷ 8 =

7) 72 x 10 =

8) 14 x 8 =

9) £7.95 + 10p =

10) 8400 – 3600 =

11) 5389 + 364

Working:

Answer:

12) 10 000 - 7391

Working:

Answer:

13) £18.95 + £23.76

Working:

Answer:

14) £9.00 - £3.65

Working:

Answer:

15) $\frac{1}{4}$ of 100

Working:

Answer:

16) 3 x 48 x 4

Working:

Answer:

17) Stephen has £6.68 and Sorcha has £4.85.
How much money do they have between them ?

Answer:

CfE Level 2

Exercise 7

1) Round the following numbers to the nearest whole number :-

(a) 13.3

(b) 25.6

(c) 10.05

2) 203 - 8 =

3) 274 + 9 =

4) 1295 + 25 =

5) £7 – 60p =

6) 63 ÷ 9 =

7) 6 x ____ = 42

8) $\frac{1}{2}$ of 58 =

9) 6.3 x 10 =

10) 78.2 ÷ 10 =

11) £15. 32 + £7.83

Working:

Answer:

12) 7263 x 8

Working:

Answer:

13) $\frac{1}{7}$ of 266

Working:

Answer:

14) 6. 3 + 7.8

Working:

Answer:

15) 965 ÷ 5

Working:

Answer:

16) 7.62 – 2.17

Working:

Answer:

17) Seb has a £2 coin, a 50p, two 20ps and a 2p.

(a)How much does he still need to have £5?

(b)What coins could he have to make up his change ?

Answers:

a)

b)

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Exercise 8

1) Round the following numbers to 1 decimal place :-			
(a) 4.43	(b) 43.89	(c) 9.97	(d) 92.88

2) 5 – 0.7 =

3) 6.6 + 2.3 =

4) 42 x 30 =

5) 10 + 7 x 3 =

6) 108 ÷ 9 =

7) 7 x ___ = 56

8) $\frac{3}{4}$ of 48 =

9) 45.54 x 100 =

10) 4.05 ÷ 100 =

11) £3000 - £1265.45

Working:

Answer:

12) 408.28 x 7

Working:

Answer:

13) 20.608 ÷ 8

Working:

Answer:

14) 13.57 + 16.79

Working:

Answer:

15) 8.49 – 6.58

Working:

Answer:

16) 8.903 x 9

Working:

Answer:

17) Trish buys a top for £27.99 and a nail polish for £1.23
What change should she get from £30

Answer:

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Exercise 9

1) Round the following numbers to 1 decimal place :-

(a) 100.45	(b) 3.92	(c) 13.01	(d) 23.77

2) $12 - 0.86 =$

3) $4.99 + 2.33 =$

4) $61 \times 200 =$

5) $13 - 18 \div 2 =$

6) $\frac{1}{5}$ of 1kg =

7) $3200 \div 80 =$

8) $\frac{1}{2}$ of $24 \div 6 =$

9) $9.098 \times 1000 =$

10) $0.02 \times 1000 =$

11) $20 - 3.22$

Working:

Answer:

12) 718.23×9

Working:

Answer:

13) $25.92 \div 8$

Working:

Answer:

14) $9.824 + 8.52 + 9.3$

Working:

Answer:

15) $13.13 - 6.25$

Working:

Answer:

16) $\frac{2}{3}$ of 87

Working:

Answer:

17) There are 48 students on a school trip. 36 students have a packed lunch. What fraction of students has a packed lunch ?

Answer:

CfE Level 2

Exercise 10

1) Round the following numbers to the nearest 1000 :-

(a) 6891	(b) 14 044	(c) 5656	(d) 3499

2) $1 - 0.05 =$

3) $3296 + 800 =$

4) $56000 \div 800 =$

5) Quarter of $20 \div 5 =$

6) $12 - 0.44 =$

7) $0.44 + 0.3 =$

8) $\frac{1}{2}$ of $150 =$

9) $13.24 \times 100 =$

10) $24 \times 4 =$

11) $9.08 - 1.69$

Working:

Answer:

12) 803.2×8

Working:

Answer:

13) $110.81 \div 7$

Working:

Answer:

14) Sixth of 56.67

Working:

Answer:

15) £89.32 + £23.74

Working:

Answer:

16) $\frac{5}{6}$ of 186

Working:

Answer:

17) Sandra paid £46 for 10 tickets. Alex has given her only £2.65 for his. How much does Alex still need to give Sandra ?

Answer:

CfE Level 2

Exercise 11

1) Round each number to 1 figure accuracy, then give an estimate to :-

(a) 72 - 56

(b) 285 + 149

2) 69 + 22 =

3) 3200 + 4500 =

4) 4900 ÷ 70 =

5) 5 x (6 + 4) =

6) £7.95 + £2.50 =

7) $\frac{2}{5}$ of 60 =

8) 84.3 ÷ 100 =

9) 0.341 x 1000 =

10) 83 x 7 =

11) 316.2 + 490.9

Working:

Answer:

12) 675.4 x 6

Working:

Answer:

13) 200.9 ÷ 7

Working:

Answer:

14) 124.8 ÷ 8

Working:

Answer:

15) 1.32 x 20

Working:

Answer:

16) $\frac{2}{3}$ of 72

Working:

Answer:

17) Insert brackets to make the following calculation correct: -

a) 5 + 3 x 2 = 16

b) 10 + 20 ÷5 – 1 = 15

c) 10 + 6 ÷ 3 x 2 = 11

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Exercise 12

1) Round each number to 1 decimal place :-

(a) 3.4677	(b) 34.091	(c) 0.119	(d) 13.96

2) 357 + 49 =

3) 6800 + 2100 =

4) 91 - 17 =

5) 6.3 + 3.26 =

6) 2.57 – 0.5 =

7) 5.050 x 1000 =

8) 0.022 ÷ 10 =

9) 25.2 x 7 =

10) 12 + third of 15 =

11) 428.9 + 322.7

Working:

Answer:

12) 612 ÷ 900

Working:

Answer:

13) 0.063 x 2000

Working:

Answer:

14) £247.50 ÷ 9

Working:

Answer:

15) 144.63 x 7

Working:

Answer:

16) $\frac{2}{7}$ of 84

Working:

Answer:

17) Write the following numbers in order from smallest to largest : -

0.63, 0.063, 0.7, 0.609, 0.6

Answer:

CfE Level 2 Numeracy

Answers

CfE Level 2

Exercise 1

1) Write the following numbers using digits

(a) Three hundred and seven — 307

(b) Four thousand and four — 4004

2) Round the following numbers to the nearest 10

(a) 24 — 20

(b) 837 — 840

(c) 3805 — 3810

3) 46 + 38 = 84

4) 480 ÷ 6 = 80

5) 6 x __9__ = 54

6) 64 - 28 = 36

7) 240+180 = 420

8) 54 x 10 = 540

9) 13 x 5 = 65

10) 780 ÷ 10 = 78

11) 360 – 210 = 150

12) 134 x 8

Working:

$$\begin{array}{r} 134 \\ \times\ 8 \\ \hline 1072 \\ \hline {\scriptstyle 2\ 3} \end{array}$$

Answer: 1072

13) 326 – 112

Working:

$$\begin{array}{r} 326 \\ -\ 112 \\ \hline 214 \end{array}$$

Answer: 214

14) $\frac{1}{4}$ of 244

Working:

$$4\overline{)244} = 061$$

Answer: 61

15) 334 + 454

Working:

$$\begin{array}{r} 334 \\ +\ 454 \\ \hline 788 \end{array}$$

Answer: 788

16) 495 ÷ 5

Working:

$$5\overline{)495} = 099$$

Answer: 99

17) 525 x 9

Working:

$$\begin{array}{r} 525 \\ \times\ 9 \\ \hline 4725 \\ \hline {\scriptstyle 2\ 4} \end{array}$$

Answer: 4725

CfE Level 2

Exercise 2

1) Write the following numbers fully using digits

(a) Seven hundred and thirteen

713

(b) Nine thousand and ten

9010

2) Round the following numbers to the nearest 10

(a) 33 30

(b) 786 790

(c) 4501 4500

3) 25 + 27 = 52

4) 58 ÷ 2 = 29

5) 7 x 9 = 63

6) 86 - 37 = 49

7) 320 + 290 = 610

8) 63 x 10 = 630

9) 12 x 5 = 60

10) 120 ÷ 10 = 12

11) 450 – 320 = 130

12) 122 x 6

Working:

$$\begin{array}{r} 122 \\ \times\ 6 \\ \hline 732 \\ \hline {\scriptstyle 1\ 1} \end{array}$$

Answer: 732

13) 566 – 304

Working:

$$\begin{array}{r} 566 \\ -\ 304 \\ \hline 262 \end{array}$$

Answer: 262

14) $\frac{1}{4}$ of 128

Working:

$$4 \overline{)\ 128} = 32$$

Answer: 32

15) 246 + 778

Working:

$$\begin{array}{r} 246 \\ +\ 778 \\ \hline 1024 \\ \hline {\scriptstyle 1\ \ 1} \end{array}$$

Answer: 1024

16) 410 ÷ 5

Working:

$$5 \overline{)\ 410} = 82$$

Answer: 82

17) 342 x 8

Working:

$$\begin{array}{r} 342 \\ \times\ 8 \\ \hline 2736 \\ \hline {\scriptstyle 3\ \ 1} \end{array}$$

Answer: 2736

Exercise 3

1) Put the following sets of numbers in order, smallest first :-

462, 408, 399, 503, 453, 512, 403, 605, 494

399 403 408 453 462 494 503 512 605

2) What do the following digits stand for in the number 5294

(a) 5	(b) 2	(c) 9	(d) 4
5000	200	90	4 units

3) 65 + 85 = 150

4) 540 ÷ 9 = 60

5) 12 x 6 = 72

6) 180 - 49 = 131

7) 310 + 190 = 500

8) 78 x 100 = 7800

9) 14 x 5 = 70

10) 8300 ÷ 100 = 83

11) 5600 – 2700= 2900

12) 273 x 7

Working:

```
  2 7 3
x     7
-------
1 9 1 1
  5 2
```

Answer: 1911

13) 5062 – 3436

Working:

```
  4   5
  5 ¹0 6 ¹2
- 3  4 3  6
-----------
  1  6 2  6
```

Answer: 1626

14) $\frac{1}{2}$ of 580

Working:

```
    2 9 0
2 | 5 ¹8 0
```

Answer: 290

15) 783 ÷ 9

Working:

```
    0 8 7
9 | 7 ⁷8 ⁶3
```

Answer: 87

16) 239 x 8

Working:

```
  2 3 9
x     8
-------
1 9 1 2
  3 7
```

Answer: 1912

17) 7 x 326

Working:

```
  3 2 6
x     7
-------
2 2 8 2
  1 4
```

Answer: 2282

CfE Level 2

Exercise 4

1) Put the following sets of numbers in order, smallest first :-

873, 808, 899, 901, 838, 908, 870, 807, 841

807 808 838 841 870 873 899 901 908

2) What do the following digits stand for in the number 38 067

(a) 8	(b) 3	(c) 6	(d) 7
8 000	30 000	60	7 units

3) 72 + 18 = 90

4) 72 ÷ 8 = 9

5) 34 x 100 = 3400

6) 175 - 35 = 140

7) 420 + 360 = 780

8) 170 ÷ 10 = 17

9) 13 x 4 = 52

10) 2800 ÷ 100 = 28

11) 7 x 8 = 56

12) 324 x 4

Working:

$$\begin{array}{r} 324 \\ \times\ 4 \\ \hline 1296 \\ \hline {\scriptstyle 1} \end{array}$$

Answer: 1296

13) 4588 – 362

Working:

$$\begin{array}{r} 4588 \\ -\ 0362 \\ \hline 4226 \\ \hline \end{array}$$

Answer: 4226

14) $\frac{1}{2}$ of 270

Working:

$$2 \overline{)\, 270} = 135$$

Answer: 135

15) 625 ÷ 5

Working:

$$5 \overline{)\, 625} = 125$$

Answer: 125

16) 216 x 3

Working:

$$\begin{array}{r} 216 \\ \times\ 3 \\ \hline 648 \\ \hline {\scriptstyle 1} \end{array}$$

Answer: 648

17) 6 x 276

Working:

$$\begin{array}{r} 276 \\ \times\ 6 \\ \hline 1656 \\ \hline {\scriptstyle 4\ 3} \end{array}$$

Answer: 1656

CfE Level 2

Exercise 5

1) Put the following sets of numbers in order, smallest first :-

5075, 5170, 4989, 5084, 5109, 5230, 5189, 6006

4989, 5075, 5084, 5109, 5170, 5189, 5230, 6006

2) Round the following numbers to the nearest 100 :-

(a) 531 500	(b) 5081 5100	(c) 7709 7700	(d) 98 899 98900

3) 75 + 76 = 151

4) 8 x 9 = 72

5) 80 + 79 = 159

6) 540 - 180 = 360

7) 56 ÷ 8 = 7

8) 73 x 100 = 7300

9) 13 x 7 = 91

10) 230 ÷ 10 = 23

11) 5800 – 3700= 2100

12) 3526 x 8

Working:

$$\begin{array}{r} 3526 \\ \times\ \ 8 \\ \hline 28208 \\ \hline {\scriptstyle 4\ 2\ 4} \end{array}$$

Answer: 28208

13) 8023 – 4187

Working:

$$\begin{array}{r} {\scriptstyle 9} \\ {\scriptstyle 7\ 1\ 1\ 1} \\ 8\,0\,2\,3 \\ -\ 4\,1\,8\,7 \\ \hline 3\,8\,3\,6 \end{array}$$

Answer: 3836

14) $\frac{1}{3}$ of 381

Working:

$$3\overline{)\,3\,8^{2}1}\quad 127$$

Answer: 127

15) 1428 ÷ 6

Working:

$$6\overline{)\,1\,4\,2\,8}\quad 0\,2\,3\,8$$

$$\begin{array}{r} {\scriptstyle 1\ 2\ 4} \\ \end{array}$$

Answer: 238

16) 5762 x 7

Working:

$$\begin{array}{r} 5762 \\ \times\ \ 7 \\ \hline 40334 \\ \hline {\scriptstyle 5\ 4\ 1} \end{array}$$

Answer: 40334

17) 8 x 509

Working:

$$\begin{array}{r} 509 \\ \times\ \ 8 \\ \hline 4072 \\ \hline {\scriptstyle 7} \end{array}$$

Answer: 4072

CfE Level 2

Exercise 6

1) Round the following numbers to the nearest whole number :-

(a) 1.8 **2**	(b) 5.4 **5**	(c) 6.23 **6**	(d) 33.64 **34**

2) 38 + 92 = **130**

3) 9 x 12 = **108**

4) 60 + 134 = **194**

5) 780 - 440 = **340**

6) 64 ÷ 8 = **8**

7) 72 x 10 = **720**

8) 14 x 8 = **112**

9) £7.95 + 10p = **£8.05**

10) 8400 – 3600 = **4800**

11) 5389 + 364

Working:

$$\begin{array}{r} 5389 \\ +\ 0364 \\ \hline 5753 \\ \hline {\scriptstyle 1\ 1} \end{array}$$

Answer: **5753**

12) 10 000 - 7391

Working:

$$\begin{array}{r} {\scriptstyle 0\ 9\ 9\ 9} \\ {\scriptstyle 1\ 1\ 1\ 1\ 1} \\ 10000 \\ -\ 07391 \\ \hline 2609 \\ \hline \end{array}$$

Answer: **2609**

13) £ 18 . 95 + £23.76

Working:

$$\begin{array}{r} £18.95 \\ +\ £23.76 \\ \hline £42.71 \\ \hline {\scriptstyle 1\ 1\ 1} \end{array}$$

Answer: **£ 42.71**

14) £9.00 - £3.65

Working:

$$\begin{array}{r} {\scriptstyle 8\ \ 9} \\ {\scriptstyle 1\ 1} \\ £9.00 \\ +\ £3.65 \\ \hline £5.35 \\ \hline \end{array}$$

Answer: **£ 5.35**

15) $\frac{1}{4}$ of 100

Working:

$$4 \overline{)\ 100} = 025$$

Answer: **25**

16) 3 x 48 x 4

Working:

$$\begin{array}{r} 48 \\ \times\ 3 \\ \hline 144 \\ \hline {\scriptstyle 2} \end{array} \qquad \begin{array}{r} 144 \\ \times\ 4 \\ \hline 576 \\ \hline {\scriptstyle 1\ 1} \end{array}$$

Answer: **576**

17) Stephen has £6.68 and Sorcha has £4.85. How much money do they have between them ?

$$\begin{array}{r} £6.68 \\ +\ £4.85 \\ \hline £11.53 \\ \hline {\scriptstyle 1\ \ 1} \end{array}$$

Answer: **£ 11.53**

CfE Level 2

Exercise 7

1) Round the following numbers to the nearest whole number :-

(a) 13.3 13

(b) 25.6 26

(c) 10.05 10

2) 203 - 8 = 195

3) 274 + 9 = 283

4) 1295 + 25 = 1320

5) £7 – 60p = £6.40

6) 63 ÷ 9 = 7

7) 6 x 7 = 42

8) $\frac{1}{2}$ of 58 = 29

9) 6.3 x 10 = 63

10) 78.2 ÷ 10 = 7.82

11) £15. 32 + £7.83

Working:

£15.32
+ £07.83
£23.15
1 1

Answer: £ 23.15

12) 7263 x 8

Working:

7263
x 8
58104
2 5 2

Answer: 58104

13) $\frac{1}{7}$ of 266

Working:

$7 \overline{)266}$ = 38

Answer: 38

14) 6. 3 + 7.8

Working:

6.3
+ 7.8
14.1
1

Answer: 14.1

15) 965 ÷ 5

Working:

$5 \overline{)965}$ = 193

Answer: 193

16) 7.62 – 2.17

Working:

7.62
- 2.17
5.45

Answer: 5.45

17) Seb has a £2 coin, a 50p, two 20ps and a 2p.

(a)How much does he still need to have £5?

(b)What coins could he have to make up his change ?

£2.00
+ £0.50
£0.40
£0.02
£2.92

£5.00
- £2.92
£2.08

Answers:

a) £2.08

b) £2 coin, 5p 2p and 1p

CfE Level 2

Exercise 8

1) Round the following numbers to 1 decimal place :-

(a) 4.43 4.4

(b) 43.89 43.9

(c) 9.97 10.0

(d) 92.88 92.9

2) 5 – 0.7 = 4.3

3) 6.6 + 2.3 = 8.9

4) 42 x 30 = 1260

5) 10 + 7 x 3 = 31

6) 108 ÷ 9 = 12

7) 7 x 8 = 56

8) $\frac{3}{4}$ of 48 = 36

9) 45.54 x 100 = 4554

10) 4.05 ÷ 100 = 0.0405

11) £3000 - £1265.45

Working:

2 9 9 9
~~3 0 0 0 . 0 0~~
- 1 2 6 5 . 4 5
1 7 3 4 . 5 5

Answer: 1734.55

12) 408.28 x 7

Working:

4 0 8 . 2 8
x 7
2 8 5 7 . 9 6
5 1 5

Answer: 2857.96

13) 20.608 ÷ 8

Working:

0 2 . 5 7 6
2 4 6 4
8 | 2 0 . 6 0 8

Answer: 2.576

14) 13.57 + 16.79

Working:

1 3 . 5 7
+ 1 6 . 7 9
3 0 . 3 6
1 1 1

Answer: 30.36

15) 8.49 – 6.58

Working:

7
~~8~~ 1 4 9
- 6 . 5 8
1 . 9 1

Answer: 1.91

16) 8.903 x 9

Working:

8 . 9 0 3
x 9
8 0 . 1 2 7
8 2

Answer: 80.127

17) Trish buys a top for £27.99 and a nail polish for £1.23
What change should she get from £30

£ 2 7 . 9 9
+ £ 0 1 . 2 3
£ 2 9 . 2 2
1 1

2 9 9
~~3~~ 0 . 1 0 0
- 2 9 . 2 2
£ 0 . 7 8

Answer: £ 0.78

Exercise 9

1) Round the following numbers to 1 decimal place :-

(a) 100.45 100.5	(b) 3.92 3.9	(c) 13.01 13.0	(d) 23.77 23.8

2) 12 – 0.86 = 11.14

3) 4.99 + 2.33 = 7.32

4) 61 x 200 = 12200

5) 13 – 18 ÷ 2 = 7

6) $\frac{1}{5}$ of 1kg = 200g

7) 3200 ÷ 80 = 40

8) $\frac{1}{2}$ of 24 ÷ 6 = 2

9) 9.098 x 1000 = 9098

10) 0.02 x 1000 = 20

11) 20 - 3.22

Working:

$$\begin{array}{r} {\scriptstyle 1\ 9\ 9} \\ 2\,\cancel{0}^{\,1}.\,\cancel{0}^{\,1}0 \\ -\ 0\,3.2\,2 \\ \hline 1\,6.7\,8 \end{array}$$

Answer: 16.78

12) 718.23 x 9

Working:

$$\begin{array}{r} 7\,1\,8.2\,3 \\ \times\quad 9 \\ \hline 6\,4\,6\,4.0\,7 \\ {\scriptstyle 1\ \ 7\ \ 2\ \ 2} \end{array}$$

Answer: 6464.07

13) 25.92 ÷ 8

Working:

$$\begin{array}{r} 0\,3.2\,4 \\ {\scriptstyle 2\ \ 1^{3}} \\ 8\overline{)\,2\,5.9\,2} \end{array}$$

Answer: 3.24

14) 9.824 + 8.52 + 9.3

Working:

$$\begin{array}{r} 9.8\,2\,4 \\ +\ 8.5\,2 \\ 9.3 \\ \hline 2\,7.6\,4\,4 \\ {\scriptstyle 1} \end{array}$$

Answer: 27.644

15) 13.13 – 6.25

Working:

$$\begin{array}{r} {\scriptstyle 0\ \ 2\ \ 1^{1}\ \ 0} \\ 1\,\cancel{3}^{\,2}.\,1\,\cancel{3}^{\,1}3 \\ -\ 0\,6.2\,5 \\ \hline 6.8\,8 \end{array}$$

Answer: 6.88

16) $\frac{2}{3}$ of 87

Working:

$$3\overline{)\,8^{2}7} = 29$$

$$29 \times 2 = 58$$

Answer: 58

17) There are 48 students on a school trip. 36 students have a packed lunch. What fraction of students has a packed lunch ?

$$\frac{36}{48} \begin{array}{l} \div 12 \\ \div 12 \end{array} = \frac{3}{4}$$

Answer: $\frac{3}{4}$

CfE Level 2

Exercise 10

1) Round the following numbers to the nearest 1000 :-

(a) 6891	(b) 14 044	(c) 5656	(d) 3499
7000	14000	6000	3000

2) 1 – 0.05 = 0.95

3) 3296 + 800 = 4096

4) 56000 ÷ 800 = 70

5) Quarter of 20 ÷ 5 = 1

6) 12 – 0.44 = 11.56

7) 0.44 + 0.3 = 0.74

8) $\frac{1}{2}$ of 150 = 75

9) 13.24 x 100 = 1324

10) 24 x 4 = 96

11) 9.08 – 1.69

Working:

8 9
~~9~~ [1] ~~0~~ [1] ~~8~~
- 1 . 6 9
7 . 3 9

Answer: 7.39

12) 803.2 x 8

Working:

8 0 3 . 2
x 8
6 4 2 . 5 6
1 2 1

Answer: 642.56

13) 110.81 ÷ 7

Working:

0 1 5 . 8 3
7 | 1 1 [1]0 [4] . 8 [5]1 [2]

Answer: 15.83

14) Sixth of 56.67

Working:

0 9 . 4 4 5
6 | 5 6[5] . 6[2] 6[2] 7 0[3]

Answer: 9.445

15) £89.32 + £23.74

Working:

£ 8 9 . 3 2
+ £ 2 3 . 7 4
£ 1 1 3 . 0 6
1 1

Answer: £ 113.06

16) $\frac{5}{6}$ of 186

Working:

0 3 1
6 | 1 8[1] 6

3 1
x 5
1 5 5

Answer: 155

17) Sandra paid £46 for 10 tickets. Alex has given her only £2.65 for his.
How much does Alex still need to give Sandra ?

0 4 . 6 0
10 | 4 6[4] . 0[6] 0

3 15
£ ~~4~~ . ~~6~~ [1]0
- £ 2 . 6 5
£ 1 . 9 5

Answer: £ 1.95

CfE Level 2

Exercise 11

1) Round each number to 1 figure accuracy, then give an estimate to :-

(a) 72 - 56

$70 - 60 \approx 10$

(b) 285 + 149

$300 + 100 \approx 400$

2) 69 + 22 = 91

3) 3200 + 4500 = 7700

4) 4900 ÷ 70 = 70

5) 5 x (6 + 4) = 50

6) £7.95 + £2.50 = £10.45

7) $\frac{2}{5}$ of 60 = 24

8) 84.3 ÷ 100 = 0.843

9) 0.341 x 1000 = 341

10) 83 x 7 = 581

11) 316.2 + 490.9

Working:

$$\begin{array}{r} 316.2 \\ +\ 490.9 \\ \hline 807.1 \\ \scriptstyle 1\quad 1 \end{array}$$

Answer: 807.1

12) 675.4 x 6

Working:

$$\begin{array}{r} 675.4 \\ \times\ 6 \\ \hline 4052.4 \\ \scriptstyle 4\ 3\ 2 \end{array}$$

Answer: 4052.4

13) 200.9 ÷ 7

Working:

$$7 \overline{)\ 2^{2}0^{6}0\ .^{4}9} \quad = \quad 028.7$$

Answer: 28.7

14) 124.8 ÷ 8

Working:

$$8 \overline{)\ 1^{1}2^{4}4\ .^{4}8} \quad = \quad 015.6$$

Answer: 15.6

15) 1.32 x 20

Working:

$1.32 \times 10 = 13.2$

$13.2 \times 2 = 26.4$

Answer: 26.4

16) $\frac{2}{3}$ of 72

Working:

$$3 \overline{)\ 7^{1}2} \quad = \quad 24$$

$$\begin{array}{r} 24 \\ \times\ 2 \\ \hline 48 \end{array}$$

Answer: 48

17) Insert brackets to make the following calculation correct: -

a) (5 + 3) x 2 = 16

b) 10 + 20 ÷ (5 – 1) = 15

c) 10 + 6 ÷ (3 x 2) = 11

CfE Level 2

Exercise 12

1) Round each number to 1 decimal place :-

(a) 3.4677 3.5	(b) 34.091 34.1	(c) 0.119 0.1	(d) 13.96 14.0

2) 357 + 49 = 406

3) 6800 + 2100 = 8900

4) 91 - 17 = 74

5) 6.3 + 3.26 = 9.56

6) 2.57 – 0.5 = 2.07

7) 5.050 x 1000 = 5050

8) 0.022 ÷ 10 = 0.0022

9) 25.2 x 7 = 176.4

10) 12 + third of 15 = 17

11) 428.9 + 322.7

Working:

$$\begin{array}{r} 428.9 \\ +\ 322.7 \\ \hline 751.6 \\ \hline 1\ \ 1 \end{array}$$

Answer: 751.6

12) 612 ÷ 900

Working:

612 ÷ 100 = 6.12

$$9\overline{)\,6^{6}.1^{7}2} \quad 0.68$$

Answer: 0.68

13) 0.063 x 2000

Working:

0.063 x 1000 = 63

63 x 2 = 126

Answer: 126

14) £247.50 ÷ 9

Working:

$$9\overline{)\,£2^{2}4^{6}7.^{4}50} \quad £027.50$$

Answer: £ 27.50

15) 144.63 x 7

Working:

$$\begin{array}{r} 144.63 \\ \times\ \ 7 \\ \hline 1012.41 \\ \hline 3\ \ 3\ \ 4\ \ 2 \end{array}$$

Answer: 1012.41

16) $\frac{2}{7}$ of 84

Working:

84 ÷ 7 = 12

2 x 12 = 24

Answer: 24

17) Write the following numbers in order from smallest to largest : -

0.63, 0.063, 0.7, 0.609, 0.6

Answer:

0.063 0.6 0.609 0.63 0.7