Decimals

Exercise 1 (A)

Arrange these decimals in order of size starting with the smallest

1) 0.3 0.7 0.1
2) 0.9 0.5 0.3
3) 0.27 0.19 0.81 0.99
4) 0.03 0.07 0.01 0.123
5) 0.361 0.729 0.887 0.039
6) 0.013 0.061 0.011 0.087
7) 0.009 0.007 0.001 0.141
8) 0.201 0.211 0.300 0.199
9) 0.567 0.581 0.509 0.500
10) 0.345 0.476 0.225 0.599

Exercise 1 (B)

Arrange these decimals in order of size starting with the smallest

1) 0.4, 0.5, 0.2
2) 0.50, 0.08, 0.8
3) 0.70, 0.68, 0.73
4) 0.42, 0.48, 0.51
5) 0.3, 0.6, 0.4
6) 0.38, 0.52, 0.44
7) 0.81, 0.4, 0.6
8) 0.22, 0.89, 0.5
9) 0.73, 0.9, 0.7
10) 0.4, 0.38, 0.2
11) 0.5, 0.27, 0.72
12) 0.3, 2.1, 0.7
13) 0.42, 4.2, 0.24
14) 0.4, 0.24, 0.42
15) 5.2, 0.52, 0.25
16) 0.3, 0.33, 0.2
17) 0.4, 0.44, 4.4
18) 0.8, 8.8, 0.88
19) 0.5, 0.45, 0.54
20) 0.81, 0.58, 0.85
Exercise 1 (C)

1) The time given for each dog in a greyhound race is given in the table. Slippy Sam was last (6th) because he had the slowest time

Write down the finishing positions of each dog.

<table>
<thead>
<tr>
<th>DOG</th>
<th>TIME (seconds)</th>
<th>FINISHING POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geordie</td>
<td>42·05</td>
<td></td>
</tr>
<tr>
<td>Slowboat</td>
<td>41·50</td>
<td></td>
</tr>
<tr>
<td>Laxdale Lass</td>
<td>41·18</td>
<td></td>
</tr>
<tr>
<td>Slippy Sam</td>
<td>43·92</td>
<td>6th</td>
</tr>
<tr>
<td>Black Leg</td>
<td>42·64</td>
<td></td>
</tr>
<tr>
<td>Bruce</td>
<td>41·93</td>
<td></td>
</tr>
</tbody>
</table>

2) The time given for each dog in a greyhound race is given in the table.

Write down the finishing positions of each dog.

<table>
<thead>
<tr>
<th>DOG</th>
<th>TIME (seconds)</th>
<th>FINISHING POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muzzle Mincer</td>
<td>37·85</td>
<td></td>
</tr>
<tr>
<td>Price’s Right</td>
<td>38·41</td>
<td></td>
</tr>
<tr>
<td>Melanie Mine</td>
<td>37·57</td>
<td></td>
</tr>
<tr>
<td>Cat Cruncher</td>
<td>38·03</td>
<td></td>
</tr>
<tr>
<td>Blinker II</td>
<td>37·28</td>
<td></td>
</tr>
<tr>
<td>Dream Song</td>
<td>36·99</td>
<td></td>
</tr>
</tbody>
</table>
3) Write down the finishing positions of each dog.

<table>
<thead>
<tr>
<th>DOG</th>
<th>TIME (seconds)</th>
<th>FINISHING POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drumstick</td>
<td>39.20</td>
<td></td>
</tr>
<tr>
<td>Hot Dog III</td>
<td>37.84</td>
<td></td>
</tr>
<tr>
<td>Marginal Run</td>
<td>38.05</td>
<td></td>
</tr>
<tr>
<td>Roustabout</td>
<td>37.55</td>
<td></td>
</tr>
<tr>
<td>Toffee Apple</td>
<td>37.79</td>
<td></td>
</tr>
<tr>
<td>Burnt Ember</td>
<td>37.43</td>
<td></td>
</tr>
</tbody>
</table>

4) Write down the finishing positions of each dog.

<table>
<thead>
<tr>
<th>DOG</th>
<th>TIME (seconds)</th>
<th>FINISHING POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbit Warren</td>
<td>38.77</td>
<td></td>
</tr>
<tr>
<td>Muncher</td>
<td>39.01</td>
<td></td>
</tr>
<tr>
<td>Stroll On</td>
<td>38.55</td>
<td></td>
</tr>
<tr>
<td>Bone Idle</td>
<td>38.78</td>
<td></td>
</tr>
<tr>
<td>Gypsy Girl</td>
<td>38.08</td>
<td></td>
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<tr>
<td>Best Friend</td>
<td>38.51</td>
<td></td>
</tr>
</tbody>
</table>

5) Write down the finishing positions of each dog.

<table>
<thead>
<tr>
<th>DOG</th>
<th>TIME (seconds)</th>
<th>FINISHING POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Wag</td>
<td>38.95</td>
<td></td>
</tr>
<tr>
<td>Rustler</td>
<td>40.04</td>
<td></td>
</tr>
<tr>
<td>Mint</td>
<td>38.80</td>
<td></td>
</tr>
<tr>
<td>Bootleg</td>
<td>38.09</td>
<td></td>
</tr>
<tr>
<td>Dog Collar</td>
<td>40.71</td>
<td></td>
</tr>
<tr>
<td>Early Bird</td>
<td>38.84</td>
<td></td>
</tr>
</tbody>
</table>
Exercise 2(A) Add

1) \(1.14\)  
   \(+ 2.30\)  
   \(.\)  
2) \(4.03\)  
   \(+ 5.81\)  
   \(.\)  
3) \(6.14\)  
   \(+ 2.35\)  
   \(.\)  
4) \(4.31\)  
   \(+ 4.58\)  
   \(.\)  
5) \(2.25\)  
   \(+ 3.46\)  
   \(.\)  
6) \(7.36\)  
   \(+ 1.37\)  
   \(.\)  
7) \(4.72\)  
   \(+ 2.83\)  
   \(.\)  
8) \(4.81\)  
   \(+ 3.45\)  
   \(.\)  
9) \(6.24\)  
   \(+ 3.88\)  
   \(.\)  
10) \(3.86\)  
    \(+ 5.79\)  
    \(.\)  
11) \(7.99\)  
    \(+ 1.77\)  
    \(.\)  
12) \(6.87\)  
    \(+ 2.78\)  
    \(.\)  
13) \(7.83\)  
    \(+ 5.92\)  
    \(.\)  
14) \(8.47\)  
    \(+ 6.54\)  
    \(.\)  
15) \(9.86\)  
    \(+ 6.97\)  
    \(.\)

Exercise 2(B) Add

1) \(2.1\)  
   \(3.4\)  
   \(+ 6.2\)  
   \(.\)  
2) \(0.3\)  
   \(4.2\)  
   \(+ 2.4\)  
   \(.\)  
3) \(1.6\)  
   \(2.0\)  
   \(+ 3.2\)  
   \(.\)  
4) \(4.0\)  
   \(0.5\)  
   \(+ 2.3\)  
   \(.\)  
5) \(4.2\)  
   \(6.4\)  
   \(+ 5.8\)  
   \(.\)  
6) \(5.6\)  
   \(6.5\)  
   \(+ 4.8\)  
   \(.\)  
7) \(3.7\)  
   \(6.4\)  
   \(+ 8.5\)  
   \(.\)  
8) \(7.9\)  
   \(2.8\)  
   \(+ 3.7\)  
   \(.\)  
9) \(7.03\)  
   \(2.58\)  
   \(+ 5.64\)  
   \(.\)  
10) \(6.56\)  
    \(4.84\)  
    \(+ 7.71\)  
    \(.\)  
11) \(7.07\)  
    \(8.56\)  
    \(+ 3.70\)  
    \(.\)  
12) \(4.28\)  
    \(8.27\)  
    \(+ 7.65\)  
    \(.\)
13) \[ 15 \times 0.47 + 3.08 + 14.88 = 15 + 3.4 \]

14) \[ 33.77 + 28.52 + 13.49 = 13 + 2.53 \]

15) \[ 72.82 + 49.56 + 18.81 = \text{Add 0.68 to 1.7} \]

16) Add 3.28 and 14.02

17) Add 7.9, 4 and 3.72

18) 7.9 + 0.62 + 5

19) Add 8.6, 5 and 3.21

20) Two tables are placed together to form a larger one. The first table is 67.4 cm long and the second table is 56.8 cm long. What is the total length?

21) Three boxes weigh 4.6 kg, 7.9 kg and 18.2 kg. What is the total weight?

22) What length of shelf is needed to hold books with thicknesses of 6.3 cm, 7.4 cm, 1.8 cm, 2.8 cm and 4.9 cm?

23) John weighs 45.2 kg and Allan weighs 40 kg. What is their total weight?

Exercise 2(C)

Work out the answers to each of the following:

1) \[ 7.2 + 3.6 \]

2) \[ 5.7 + 4.5 \]

3) \[ 12.3 + 17.8 \]

4) \[ 16.5 + 14.2 \]

5) \[ 1.4 + 2.7 \]

6) \[ 4.28 + 2.15 \]

7) \[ 4.17 + 3.69 \]

8) \[ 5.22 + 1.79 \]

9) \[ 3.58 + 2.19 \]

10) \[ 1.11 + 6.66 \]

11) \[ 4 + 3.6 \]

12) \[ 12 + 4.2 \]

13) \[ 13.8 + 1.7 \]

14) \[ 56.1 + 3.46 \]

15) \[ 17.1 + 2.83 \]

16) \[ 1.7 + 2.57 \]

17) \[ 12.6 + 1.47 \]

18) \[ 14 + 0.29 \]

19) \[ 15 + 3.42 \]

20) \[ 13 + 2.53 \]

21) Add 0.68 to 1.7

22) Find the sum of 3.28 and 14.02

23) To 7.9 add 4 and 3.72

24) Evaluate 7.9 + 0.62 + 5

25) Find the sum of 8.6, 5 and 3.21
### Exercise 3(A) Subtract

<p>| | | | |</p>
<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>27.58</td>
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<td>38.69</td>
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<tr>
<td>2</td>
<td>38.69</td>
<td>3</td>
<td>42.22</td>
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<tr>
<td></td>
<td>42.22</td>
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<tr>
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<td>5</td>
<td>68.88</td>
</tr>
<tr>
<td></td>
<td>68.88</td>
<td>6</td>
<td>68.88</td>
</tr>
<tr>
<td></td>
<td>68.88</td>
<td>7</td>
<td>68.88</td>
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<tr>
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<td>68.88</td>
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</tr>
<tr>
<td></td>
<td>68.88</td>
<td>14</td>
<td>68.88</td>
</tr>
<tr>
<td></td>
<td>68.88</td>
<td>15</td>
<td>68.88</td>
</tr>
</tbody>
</table>

### Exercise 3 (B) Subtract

Work out the answers to each of the following:

<p>| | | | |</p>
<table>
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<th></th>
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<th></th>
</tr>
</thead>
<tbody>
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<td>2</td>
<td>9.6 – 1.8</td>
</tr>
<tr>
<td>2</td>
<td>9.6 – 1.8</td>
<td>3</td>
<td>32.7 – 14.2</td>
</tr>
<tr>
<td>3</td>
<td>32.7 – 14.2</td>
<td>4</td>
<td>15.6 – 14.7</td>
</tr>
<tr>
<td>4</td>
<td>15.6 – 14.7</td>
<td>5</td>
<td>26.9 – 12.4</td>
</tr>
<tr>
<td>5</td>
<td>26.9 – 12.4</td>
<td>6</td>
<td>17.28 – 10.43</td>
</tr>
<tr>
<td>6</td>
<td>17.28 – 10.43</td>
<td>7</td>
<td>56.48 – 25.29</td>
</tr>
<tr>
<td>7</td>
<td>56.48 – 25.29</td>
<td>8</td>
<td>82.04 – 63.48</td>
</tr>
<tr>
<td>8</td>
<td>82.04 – 63.48</td>
<td>9</td>
<td>92.16 – 25.31</td>
</tr>
<tr>
<td>9</td>
<td>92.16 – 25.31</td>
<td>10</td>
<td>83.58 – 36.21</td>
</tr>
<tr>
<td>10</td>
<td>83.58 – 36.21</td>
<td>11</td>
<td>25.83 – 15.4</td>
</tr>
<tr>
<td>11</td>
<td>25.83 – 15.4</td>
<td>12</td>
<td>36.42 – 15.9</td>
</tr>
<tr>
<td>12</td>
<td>36.42 – 15.9</td>
<td>13</td>
<td>83.29 – 16.3</td>
</tr>
<tr>
<td>13</td>
<td>83.29 – 16.3</td>
<td>14</td>
<td>25.62 – 7.3</td>
</tr>
<tr>
<td>14</td>
<td>25.62 – 7.3</td>
<td>15</td>
<td>34.26 – 1.09</td>
</tr>
<tr>
<td>15</td>
<td>34.26 – 1.09</td>
<td>16</td>
<td>26.4 – 15.35</td>
</tr>
<tr>
<td>16</td>
<td>26.4 – 15.35</td>
<td>17</td>
<td>12.4 – 5.62</td>
</tr>
<tr>
<td>17</td>
<td>12.4 – 5.62</td>
<td>18</td>
<td>17.4 – 8.99</td>
</tr>
<tr>
<td>18</td>
<td>17.4 – 8.99</td>
<td>19</td>
<td>34.6 – 2.11</td>
</tr>
<tr>
<td>19</td>
<td>34.6 – 2.11</td>
<td>20</td>
<td>73.2 – 16.78</td>
</tr>
<tr>
<td>20</td>
<td>73.2 – 16.78</td>
<td>21</td>
<td>14 – 3.2</td>
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<tr>
<td>21</td>
<td>14 – 3.2</td>
<td>22</td>
<td>83 – 5.6</td>
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<tr>
<td>22</td>
<td>83 – 5.6</td>
<td>23</td>
<td>46 – 3.7</td>
</tr>
<tr>
<td>23</td>
<td>46 – 3.7</td>
<td>24</td>
<td>36 – 8.08</td>
</tr>
<tr>
<td>24</td>
<td>36 – 8.08</td>
<td>25</td>
<td>42 – 6.72</td>
</tr>
</tbody>
</table>

26) Take 19.2 from 76.8
27) From 0.67 subtract 0.38
28) Subtract 1.9 from 10.2
29) Evaluate 7.62 – 0.81
30) What is the difference between 17.93 and 13.27?
### Exercise 4 (A) Multiply

<p>| | | | | |</p>
<table>
<thead>
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<tbody>
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</tr>
<tr>
<td>4</td>
<td>29·3 × 4</td>
<td>5</td>
<td>51·6 × 2</td>
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<tr>
<td>7</td>
<td>23·8 × 9</td>
<td>8</td>
<td>14·81 × 5</td>
<td>9</td>
</tr>
<tr>
<td>10</td>
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<td>29·9 × 6</td>
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</tr>
<tr>
<td>16</td>
<td>83·8 × 8</td>
<td>17</td>
<td>56·92 × 4</td>
<td>18</td>
</tr>
<tr>
<td>19</td>
<td>9·49 × 9</td>
<td>20</td>
<td>92·01 × 7</td>
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<tr>
<td>22</td>
<td>7·42 × 6</td>
<td>23</td>
<td>28·39 × 5</td>
<td>24</td>
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</table>

### Exercise 4 (B) Multiply

<p>| | | | | |</p>
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<tbody>
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<td>4</td>
<td>14·3 × 10</td>
<td>5</td>
<td>17·28 × 10</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>38·35 × 10</td>
<td>8</td>
<td>42·02 × 10</td>
<td>9</td>
</tr>
<tr>
<td>10</td>
<td>6·7 × 100</td>
<td>11</td>
<td>4·3 × 100</td>
<td>12</td>
</tr>
<tr>
<td>13</td>
<td>42·81 × 100</td>
<td>14</td>
<td>39·91 × 100</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>4·3 × 1000</td>
<td>17</td>
<td>6·2 × 1000</td>
<td>18</td>
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<tr>
<td>19</td>
<td>19·9 × 1000</td>
<td>20</td>
<td>19·91 × 1000</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>39·73 × 1000</td>
<td>23</td>
<td>47·83 × 1000</td>
<td>24</td>
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</tbody>
</table>

### Exercise 4 (C) Multiply

<p>| | | | | |</p>
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<tr>
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<tbody>
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<td>5·8 × 10</td>
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<tr>
<td>4</td>
<td>36·2 × 10</td>
<td>5</td>
<td>81·1 × 10</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>4·27 × 10</td>
<td>8</td>
<td>9·49 × 10</td>
<td>9</td>
</tr>
<tr>
<td>10</td>
<td>92·29 × 10</td>
<td>11</td>
<td>3·44 × 100</td>
<td>12</td>
</tr>
</tbody>
</table>
Exercise 4 (A) Divide

1) 57 ÷ 10  
2) 6.2 ÷ 10  
3) 13.4 ÷ 10  
4) 28.6 ÷ 10  
5) 38.24 ÷ 10  
6) 17.83 ÷ 10  
7) 210.5 ÷ 10  
8) 57.5 ÷ 100  
9) 203.2 ÷ 100  
10) 2432.3 ÷ 100  
11) 1325.8 ÷ 100  
12) 672.3 ÷ 100  
13) 5325.6 ÷ 100  
14) 1769.73 ÷ 100  
15) 2693.64 ÷ 1000  
16) 1775.6 ÷ 1000  
17) 2935.67 ÷ 1000  
18) 1956.21 ÷ 1000  
19) 1234.5 ÷ 1000  
20) 7324.6 ÷ 1000

Exercise 4 (B) Divide

1) 828.6 ÷ 2  
2) 19.50 ÷ 6  
3) 2.736 ÷ 6  
4) 59.5 ÷ 5  
5) 31.203 ÷ 9  
6) 182.68 ÷ 4
7) \( 164.92 \div 7 \)  
8) \( 0.24 \div 2 \)  
9) \( 60.444 \div 9 \)

10) \( 273.6 \div 6 \)  
11) \( 54.312 \div 8 \)  
12) \( 31.56 \div 4 \)

13) \( 1461.6 \div 4 \)  
14) \( 88.74 \div 6 \)  
15) \( 235.35 \div 3 \)

16) \( 16.5 \div 5 \)  
17) \( 5.31 \div 9 \)  
18) \( 12.6 \div 2 \)

19) \( 8.778 \div 7 \)  
20) \( 2.368 \div 1000 \)

**Exercise 4 (C) Divide**

1) \( 5.6 \div 10 \)  
2) \( 8.4 \div 10 \)  
3) \( 4.3 \div 10 \)

4) \( 36.2 \div 10 \)  
5) \( 58.5 \div 10 \)  
6) \( 43 \div 10 \)

7) \( 85 \div 10 \)  
8) \( 278 \div 10 \)  
9) \( 666 \div 10 \)

10) \( 910 \div 10 \)  
11) \( 534 \div 100 \)  
12) \( 637 \div 100 \)

13) \( 735 \div 100 \)  
14) \( 821 \div 100 \)  
15) \( 999 \div 10 \)

16) \( 42 \div 100 \)  
17) \( 63 \div 100 \)  
18) \( 77 \div 100 \)

19) \( 10 \div 100 \)  
20) \( 8 \div 100 \)  
21) \( 6.8 \div 2 \)

22) \( 17.1 \div 3 \)  
23) \( 22.4 \div 4 \)  
24) \( 87.5 \div 5 \)

25) \( 52.2 \div 6 \)  
26) \( 33.6 \div 7 \)  
27) \( 48.8 \div 8 \)

28) \( 12.6 \div 9 \)  
29) \( 47.8 \div 2 \)  
30) \( 16.47 \div 3 \)

31) \( 11.48 \div 4 \)  
32) \( 42 \div 5 \)  
33) \( 14.82 \div 6 \)

34) \( 44.66 \div 7 \)  
35) \( 82 \div 8 \)  
36) \( 69.93 \div 9 \)

37) \( 266.8 \div 4 \)  
38) \( 355.6 \div 7 \)  
39) \( 6.84 \div 9 \)

40) \( 113.6 \div 8 \)
Exercise 4 (A/B/C) Problems

1) Two tables are placed together to form a larger one. If the first table is 67·4 cm long and the second table is 56·8 cm long, what is the total length?

2) A piece of wood is 37·4 cm long. If 12·7 cm is cut off from one end what length remains?

3) A child places 5 toy bricks of length 14·6 cm in a straight line. What is the total length?

4) A piece of ribbon 114·8 cm long is shared equally among 7 girls. What length should each girl receive?

5) Three boxes weigh 4·6 kg, 7·9 kg and 18·2 kg. What is the total weight?

6) A bottle of Coca-Cola holds 2 litres. What volume remains after a glass of 0·35 litres has been removed?

7) What length of shelf is needed to hold books with thicknesses of 6·3 cm, 7·4 cm, 1·8 cm, 2·8 cm and 4·9 cm?

8) Billy does 10 press ups in 26·8 seconds. How long does he take for each press up?

9) Six spoonfuls of medicine each holding 5·1 ml are removed from a bottle containing 50 ml. How much medicine is left in the bottle?

10) A car uses 0·12 litres of petrol for every mile it travels. How many litres will be used in travelling 9 miles?