



Decimals (part 2)

Exercises

Learning Skills

Introduction:

To reinforce what was learnt in [part 1](#) of this topic we have included some exercises for you to try out. Answers can be found at the end of this document. Contact one of our Maths Advisers if you have any problems.

1. Change to a decimal

1.1. $\frac{9}{10}$

1.2. $\frac{8}{100}$

1.3. $\frac{27}{100}$

1.4. $\frac{7}{1000}$

1.5. $\frac{56}{1000}$

1.6. $\frac{725}{1000}$

2. Change to a fraction

2.1. 0.7

2.2. 0.29

2.3. 0.03

2.4. 0.357

2.5. 0.051

2.6. 0.0013

3. Write the following in expanded form

3.1. 0.531

3.2. 67.5

4. State the place value of the 7 in the following numbers

4.1. 3.756

4.2. 453.87

4.3. 174.44

5. Arrange in ascending order (smallest to largest)

5.1. 0.43, 0.2, 0.423

5.2. 0.5, 0.06, 0.6

5.3. 0.1, 0.05, 0.015

6. Evaluate

6.1. 2.3×10

6.4. 4.589×100

6.7. $8.5 \div 10$

6.10. $235.6 \div 100$

6.2. 56×10

6.5. 23.5×100

6.8. $672 \div 10$

6.11. $3568 \div 1000$

6.3. 0.69×10

6.6. 12.859×1000

6.9. $0.6 \div 10$

6.12. $25 \div 1000$

7. Evaluate

7.1. $2.6 + 5.46 + 0.93 + 724.68$

7.2. $127.39 - 58.51$

8. Evaluate

8.1. 1.2×6

8.3. 1.1×0.8

8.5. 0.04×0.2

8.2. 0.3×0.2

8.4. 0.09×200

8.6. 2.8×1.7

9. Evaluate

9.1. $1.6 \div 4$

9.2. $0.35 \div 5$

9.3. $52.324 \div 2$

9.4. $0.0075 \div 3$

10. Evaluate

10.1. $0.56 \div 0.2$

10.2. $4.5 \div 0.5$

10.3. $13.2 \div 0.03$

10.4. $0.005 \div 0.02$

11. Convert the following fractions to decimals

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

11.3. $\frac{13}{20}$

11.5. $\frac{9}{40}$

11.2. $\frac{6}{25}$

11.4. $\frac{3}{8}$

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

12. Round off to the nearest whole number

12.1. 4.7

12.2. 51.428

13. Round to 2 decimal places

13.1. 81.4677

13.2. 0.099

13.3. 55.1515

14. Mixed exercises

14.1. Each can of paint covers an area of 100 square metres. Joan wishes to cover an area of 600 square metres.

- How many cans of paint will she need?
- What is the cost of the paint if each tin costs \$27.55?

14.2. These are the winning times for the women's 100 m sprint in the Olympic Games from 1964 to 1980.

1964: 11.4 seconds, 1968: 11.0 seconds, 1972: 11.07 seconds,

1976: 11.08 seconds, 1980: 11.06 seconds

Arrange these times in order from the fastest time to the slowest time.

14.3. In the 400 metres event the runner who came second ran the distance in 44.37 seconds. The race was won in a time of 43.9 seconds. What was the time difference between 1st and 2nd?

14.4. A container of milk contains 2 litres of milk. How many 0.25 litre glasses can be filled with this milk?

15. Answers

1.1. 0.9

1.2. 0.08

1.3. 0.27

1.4. 0.007

1.5. 0.056

1.6. 0.72

2.1. $\frac{7}{10}$

2.2. $\frac{29}{100}$

2.3. $\frac{3}{100}$

2.4. $\frac{357}{1000}$

2.5. $\frac{51}{1000}$

2.6. $\frac{13}{1000}$

3.1. $5 \times \frac{1}{10} + 3 \times \frac{1}{100} + 1 \times \frac{1}{1000}$

3.2. $6 \times 10 + 7 \times 1 + 5 \times \frac{1}{10}$

4.1. tenths

4.2. $\frac{1}{100}$'s

4.3. 10's

5.1. 0.2 0.423 0.43

5.2. 0.06 0.5 0.6

5.3. 0.015 0.05 0.1

6.1. 23

6.3. 6.9

6.5. 2350

6.7. 0.85

6.9. 0.06

6.11. 3.568

6.2. 560

6.4. 458.9

6.6. 12 859

6.8. 67.2

6.10. 2.356

6.12. 0.025

7.1. 733.67

7.2. 68.88

8.1. 7.2

8.2. 0.06

8.3. 0.88

8.4. 18

8.5. 0.008

8.6. 4.76

9.1. 0.4

9.2. 0.07

9.3. 26.162

9.4. 0.0025

10.1. 2.8

10.2. 9

10.3. 440

10.4. 0.25

11.1. 0.75

11.3. 0.65

11.5. 0.225

11.2. 0.24

11.4. 0.375

11.6. $0.\overset{\cdot}{2}\overset{\cdot}{7}$

12.1. 5

12.2. 51

13.1. 81.47

13.2. 0.10

13.3. 55.15

14.1. a) 6 cans

b) cost = $6 \times \$27.55 = \165.30

14.2. 11.0 11.06 11.07 11.08 11.4

14.3. $44.37 - 43.9 = 0.47$ seconds

14.4. $2 \div 0.25 = \frac{2}{0.25} = \frac{2^{\times 100}}{0.25^{\times 100}} = \frac{200}{25} = 8$ glasses

16. For more information

Visit our Learning Skills website at <http://www.csu.edu.au/division/studserv/maths/index.htm>

Part 1 of this document can be found at <http://www.csu.edu.au/division/studserv/maths/teachered.htm>

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