

WORKSHEET 1 DECIMALS AND MONEY – CHAPTER 4

WHY DOES A HUMMING BIRD HUM?



1 Write as a decimal

(a) $\frac{3}{10} + \frac{6}{100}$

(b) $\frac{2}{10} + \frac{3}{100} + \frac{4}{1000}$

(c) $14 + \frac{74}{1000}$

2 Write these in expanded form. (as fractions)

(a) 0.51

(b) 0.444

(c) 1.016

3 Rewrite in ascending order

(a) 0.82, 2.8, 0.28, 8.2

(b) 4.410, 4.014, 4.140, 4.041

4 Insert <or>

(a) 0.5 ___ 0.56

(b) 0.93 ___ 0.91

(c) 9.101 ___ 9.10

5 Round off to the decimal place indicated in the brackets.

(a) 0.473 (2 d.p.)

(b) 23.099 (2 d.p.)

(c) 8.0995 (3 d.p.)

6 (a) $8.16 + 0.335 + 4.37$

(b) $0.001 + 0.01 + 0.1$

(c) $14 + 0.043 + 2.19$

7 (a) $4.37 - 2.98$

(b) $0.384 - 0.295$

(c) $30 - 0.07$

8 (a) 0.2×0.3

(b) 1.75×0.1

(c) 4.25×4

9 (a) 0.83×10

(b) 0.83×100

(c) 0.83×1000

10 (a) $(0.5)^2$

(b) $(0.04)^2$

(c) $(0.2)^3$

11(a) $8.04 \div 2$

(b) $8.04 \div 0.02$

(c) $15.069 \div 0.3$

12 (a) $7.65 \div 10$

(b) $7.65 \div 100$

(c) $0.92 \div 100$

13 (a) $\frac{13.6}{0.04}$

(b) Is $\frac{365}{0.05}$ the same as $\frac{3.65}{0.5}$?

14 Gemma cuts 3 strips, each of length 0.65 m from a long piece of ribbon. If the ribbon was 2.5 m in length, how much of material was left?

15 (a) A netball ring is 3.05 m above the ground. Ashley is 1.53 m tall and can reach 48 cm above her head. How far must she throw the netball upwards to the ring level?

(b) Ben is paid \$12 per hour. How many hours must he work to earn \$102?

16 Jarrod bought the following items from the supermarket: 4 drinks @\$1.65 each; margarine \$1.65, bread \$2.25, coffee \$4.28. Find his change from \$20.

17 Change these fractions to decimal form.

(a) $\frac{2}{5}$ (b) $100\frac{17}{100}$ (c) $\frac{1}{8}$ (d) $2\frac{19}{20}$

18 Write these fractions as recurring decimals

(a) $\frac{1}{7}$ (b) $\frac{2}{3}$

19 Write these repeating decimals in mathematical short hand.

(a) 0.575757..... (b) 8.62222.... (c) 6.034563456.....

20 Arrange these decimals in increasing order.

$0.25, (0.25)^2, \sqrt{0.25}, \frac{1}{0.25}, \frac{1}{0.25^2}$

Answers:

D	D	E	E	H	I	K
12.865	1.39	0.765	340	0.36	<	0.4, 100.17
0.111	0.089	0.0765	no	0.234	>	0.125, 2.95
16.233	29.03	0.0092		14.0.74	<	

N	N	O	O	O	R	S	S
\$5.22	$0.\overline{142857}$ $0.\overline{6}$	0.25 0.0016 0.008	4.02 402 50.23	$(0.25)^2$ 0.25 $\sqrt{0.25}$ $\frac{1}{0.25}$ $\frac{1}{0.25^2}$	0.06 0.175 17	$\frac{5}{10} + \frac{1}{100}$ $\frac{4}{10} + \frac{4}{100} + \frac{4}{1000}$ $1 + \frac{1}{100} + \frac{6}{1000}$	1.04 8.5

E	T	T	W	W
8.3 83 830	0.55	$\ddot{0.57}$ $\dot{8.62}$ $\overline{6.03456}$	0.28, 0.82, 2.8, 8.2 4.014, 4.041, 4.140, 4.410	0.47 23.10 8.100

4 9 6 10 13 15 16 14 17 18 20 3 19 1 12

5 11 8 7 2

WORKSHEET 2 DECIMALS AND MONEY – CHAPTER 4

WHAT'S THE PELICAN'S FAVOURITE DISH?



1 (a) 0.35×10 (b) 0.35×1000 (c) $0.35 \div 10$ (d) $0.35 \div 1000$

2 One and twenty-one hundredths is:

A 0.121 B 1.021 C 1.21 D 121.00 E 12 00

3 Which of the following is the nearest to 4?

A 3.98 B 3.908 C 4.1 D 4.01 E 4.001

4 Alex used a calculator to calculate 9.5×1.44 but forgot to enter the decimal points. The machine showed 13680. What should have been the answer?

5 What is the difference between the value of the first "6" and that of the second "6" in the number 6.246?

$$6 \ 1 + \frac{1}{100} + \frac{1}{1000} = ?$$

7 What is the difference between the two 5s in the number 7 569.45?

8 How many sheets of paper 0.01 cm thick does it take to make a stack of paper 4 cm thick?

9 If Nat wrote down 14.7 instead of 1.47 in an addition problem, how much more than the original number did he put down?

10 If you buy 3 pens at \$4.45 each, find the change from \$20.

11 Which is the best buy? Four toilet rolls at \$2.64 or six toilet rolls at \$3.78?

12 Scott earns \$890 per week.

(a) If he works 40 hours per week, what is his hourly rate?

(b) If he worked for 50 weeks last year, what was his salary for the year?

13 Grumpy is as much taller than Dopey as Dopey is taller than Happy. Grumpy is 1.27 m tall and Dopey is 1.11 m tall. How tall in metres is Happy?

14 What is the number that is half way between:

(a) 0.6 and 1.2

(b) 0.98 and 1.15?

15 0.5 is 20% of what number?

16 Find the capacity of a container if it requires 180 mL to fill to 0.75 of its capacity?

17 If Ricky Ponting's batting average this summer was 56.4, find the total number of runs that he scored if he batted 18 times.

18 Bob the builder cuts four equal 75 cm lengths of wood from a 3.6 metre piece. What is the length of the remaining piece?

19 At Bulk Bill's food store the prices were:

Orange juice	22L	\$26.40
Soft drinks	1 dozen packs	\$72.00
Ice-cream	10L	\$14.50
Margarine	5kg	\$14.25

Find the **unit price** of each item.

20 During 2003, AU\$1 was worth US0.65. How much US money was received after exchanging \$200?

21 The cost of entry into a national Park was \$16.59. If there were 3 persons in the car, how much would each person pay?

22 Haseem's take-home pay is \$650.50 per week. If he pays \$28.75 for health insurance and \$252.64 for mortgage repayments what is the remaining amount?

23 Carla is saving to purchase a bike costing \$450. She has made three deposits so far this year of \$45.90, \$87.50 and \$74.62.

(a) How much has she saved so far?

(b) How much more does she need to save before she can buy the bike?

Answers:

A	A	B	E	F	G	H	H
1.011	0.6m	E	\$22.25 \$44500	\$5.53	240mL	\$6.65	0.9 1.065

H	I	I	I	L	L	N	N
1015	499.95	2.5	\$369.11	C	6 rolls	13.68	0.95m

S	T	T	T	T	T	Y
3.5 350 0.035 0.00035	5.994	13.23	\$208.02 \$241.98	\$1.20 \$6 \$1.45 \$2.85	\$130	400

6 13 8 9 14 15 4 16 23 17 18 20 21 22 19 1

5 10 12 3 7 11 2

WORKSHEET 3 DECIMALS AND MONEY – CHAPTER 4

WHY WAS THE MATHS BOOK SAD?



1 Round the number 7.659 to:

(a) the nearest whole number (b) correct to 1 d.p. (c) correct to 2 d.p.

2 Timekeepers recorded the following times for a 100 metres sprint:

15.07, 15.02, 15.19. Round these off to the nearest tenth of a second.

3 Ed jumped a distance of 5.76 metres. Tran came second with a leap of 5.39 metres. What was the winning margin?

4 The front lawn is rectangular in shape and with dimensions 24.5 metres by 14 metres. Find:

- (a) area
- (b) perimeter

5 Danny has 5 litres of juice and each cup holds 0.25 litres. How many cups can you fill?

6 Each of the 4 sides of a baseball pitch is 27.45 metres in length. If Jesse hits the ball out of the park, how far must he run for his home run?

7 Ian swam 0.6 km in a 50 metre pool. How many laps is this?

8 Bob, the builder cuts 3 lengths of wood of equal length of 55 cm from a 2.7 metres piece. What was the length of the remaining piece?

9 A netball player averaged 8.25 goals per game during the season. If there were 12 games, how many goals did she score?

10 The population of a country town was 4900 and 0.55 of the population was male. Find the number of female.

11 Dad orders 37 metres of hardwood decking at \$1.05 per metre from the local timber merchant. Find the cost in dollars.

12 A vegetable contains 4.63 kilojoules per gram. How many kilojoules would a 50 gram portion contain?

13 Josephine puts 46 litres of petrol in the car before a trip out of town. If the price is 85.4 cents per litre, what was cost of the fuel?

14 Anna checked her electricity meter each Monday and recorded the readings:

First Monday 6356.5 kilowatt hours

Second Monday 6701.3 kilowatt hours

(a) How many kilowatt hours of electricity did her household use in one week?

(b) If electricity costs \$0.18 per kilowatt hour, find the cost of the electricity supplied in the week.

15 The Kim family made the following purchases from the supermarket. 2.7 kg of steak at \$9.50 per kg; 3kg of apples at \$3.50 per kg, 2 dozen eggs at \$2.45 per dozen, 6 kg of potatoes at \$1.05 per kg, 3 kg of sausages at \$3.75 per kg. What is their change from \$100?

16 Stefan uses his phone card to call long distance. The charges are \$0.90 per minute. How many minutes can he speak for if he has \$8.28 credit left on his phone card?

17 Eight people in the town of Casino shared first prize of \$12 228.40 in a lottery. What was each person's share of the prize?

18 A straight pathway (rectangular shape) is 2.2 metres wide and has an area of 77 square metres. Find the length of the pathway.

19 Chin wishes to mix 0.05 litres of poison concentrate with water to fill his garden sprayer. If he has 0.65 litres of poison concentrate left, how many sprayer tankfuls can he mix?

20 (a) A satellite takes about 1.6 hours to orbit the Earth. How many complete orbits does the satellite make in 24 hours?

(b) A hockey club bought 18 jumpers at \$65.25 each. Find the total cost.

Answers:

A	A	B	D	E	H	I	L
\$41.40	\$1528.55	20	\$39.28	2205	344.8 \$62.06	12 laps	1.05m

M	M	N	O	O	O	P	R
0.37	15 \$1120.50	13	15.1 15.0 15.2	99	35m	\$38.85	109.8m

S	T	T	Y
8 7.7 7.66	232 kilojoules	9.2 min	343 77

$\overline{7 \ 12} \quad \overline{14 \ 15 \ 13} \quad \overline{16 \ 2 \ 18} \quad \overline{20 \ 17 \ 19 \ 4}$

$\overline{11 \ 6 \ 9 \ 5 \ 8 \ 10 \ 3 \ 1}$