

Year 4 Term 4 Homework

Student Name: _____	Grade: _____
Date: _____	Score: _____

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9 Year 4 Term 4 Week 9 Homework

9.1 Measurement

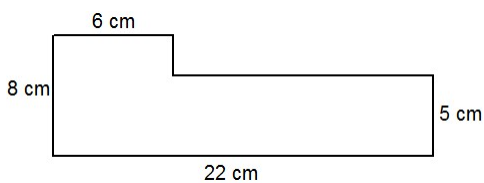
Exercise 9.1.1 Unit conversion

1. How many seconds in 3 and a half minutes? _____
2. How many minutes in 5 and a quarter hours? _____
3. How many grams are there in $\frac{1}{20}$ kg? _____
4. How many kilograms are there in 1.25 tonnes? _____
5. How many metres are there in a quarter of a kilometre? _____
6. How many metres are there in a 2.25 kilometre? _____
7. How many square metres in 2 hectares? _____
8. How many days are there in November and December? _____
9. How many days are there in 2 fortnights? _____
10. How many square centimetres in one square metre? _____
11. How many square metres are there in a quarter of a hectare (ha)? _____
12. How many ml in 1.25 Litres? _____

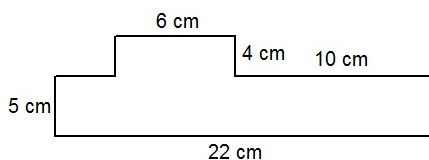
9.1.1 Perimeter and Area

Exercise 9.1.2 Find the perimeters and areas of the following shapes:

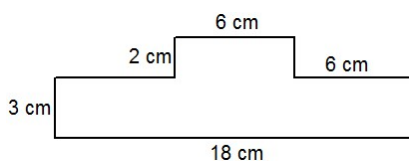
1. Perimeter: _____ Area: _____



2. Perimeter: _____ Area: _____



3. Perimeter: _____ Area: _____



9.1.2 Surface Area

Exercise 9.1.3 Find the surface areas of the following shapes:

1. *A cube with size of 3 cm.*

2. *A square base prism with dimensions 4 cm by 4 cm by 6 cm.*

9.1.3 Volume

Exercise 9.1.4 Find the volume of the following shapes:

1. *A cube with size of 5 cm.*

2. *A rectangular base prism with dimensions 4 cm by 5 cm by 6 cm.*

9.2 Rates and Percentages

Exercise 9.2.1

1. If 8 exercise books cost \$1.20., What is the cost of 15 books?

2. Riverside Park is a field of 50 metres by 90 metres. If 60% of the field is grass, what is this area?

3. What is 45% of \$500?

4. 35% of Mike's yearly salary is \$6300. What is his yearly salary?

5. What percentage mark does George get if he scored 34 out of 40 in a math test?

6. A cyclist travels at 12 km/h. How far in metres does he travel in 20 minutes?

9.3 Ratio

Exercise 9.3.1

1. A car can travel approximately 100 km on 11 L of petrol. About how far will it travel on 66 L?

2. Tony and Mike agreed to share a total of \$120.00 in the ratio of 5:7. How much does each boy have?

3. A bag contain a total of 200 red and green marbles. The ratio of red marbles to the green marbles is 2:3. Find the number of green marbles.

4. If \$5 can buy 4 exercise books, how many books can be bought for \$15?

5. A car can travel 120 km in two hours. How far can it travel in 5 hours if it travels in the same speed?

6. A bag contains some green and yellow marbles in the ratio of 3 : 5. If the number of yellow marbles is 20 more the green marbles, how many marbles altogether are in the bag?

9.4 Chance

Exercise 9.4.1

1. What is the chance of getting a number 6 when you throw a dice?

2. What is the chance of getting the numbers 1 or 6 when you throw a dice?

3. What is the chance to an odd number when you throw a dice?

4. What is the chance not getting 6 when you roll a dice?

5. There are 3 green marbles, 4 red marbles and 5 blue marbles in a bag. What is the chance of getting a green marble from the bag?

6. If David gets on a bus with 2 men and 3 woman already on it, what is the probability that the person he sits next to is a man?

9.5 Number Patterns

Exercise 9.5.1

1. What is the missing number in the series?

(a) 2, 3, 5, \square , 12, 17, 23. . . _____

(b) 1, 4, 9, \square , 25, 36, . . . _____

(c) 40, 29, 20 \square , 8, 5, 4, . . . _____

2. What is the next two numbers in the series?

(a) 2, 4, 3, 6, 5, 9, . . . _____

(b) 13, 9, 18, 14, 28, 24, . . . _____

(c) $\frac{1}{2}$, $\frac{2}{4}$, $\frac{3}{6}$, $\frac{4}{8}$, $\frac{5}{10}$, . . . _____

3. What number comes next in the series?

(a) 3, 5, 9, 17, \square , . . . _____

(b) 1, 2, 3, 3, 4, 5, 5, 6, 7, 7, \square , . . . _____

(c) $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{6}$, $\frac{7}{8}$, $\frac{9}{10}$, \square , . . . _____

4. Find the sum of $1 + 2 + 3 + \dots + 49 + 50$.

5. Find the sum of $1 + 3 + 5 + \dots + 47 + 49$.

6. Find the sum of $2 + 4 + 6 + \dots + 48 + 50$.

9.6 Diagnostic Test

1. Ken has a trundle wheel that clicks every 2 metres. How many clicks will be heard in one and a half kilometres? [5]

2. Start from 225, how many times must 7 be subtracted to get an answer of 1? [5]

3. A cup holds 150 mL. If Bonnie needs 50 cups of hot water. How much water in litres does she need to boil? [5]

4. A distance of 12 km was walked at a speed of 4 km/h on the way and 6 km/h on the way back. What was the average speed? [5]

5. What is the missing number in the following pattern? 9, 10, 8, 11, 7, 12, 6, □, . . . [5]

6. Find the sum of the first 20 odd numbers. [5]

7. A barrel of water has a mass of 2.35 kg. If the barrel's mass is 450 g, what is the mass of water? [5]

8. A rectangle is 12.5 cm long and 6.5 cm wide. Find the perimeter of the rectangle. [5]

9. Find the length of one side if the perimeter of a square is 150 cm. [5]

10. If 40% of a number is 120, What is that number? [5]

11. How many 500 g packs of butter would have a total mass of 12 kg? [5]

12. A water tank holds 240 litres. How many 5 litres bottles can be filled from this water tank? [5]

13. What is the largest of three digit odd number that can be made by using numbers: 5, 6, 7, 8? [5]

14. What is the smallest of three digit even number that can be made by using numbers: 5, 6, 7, 8? [5]

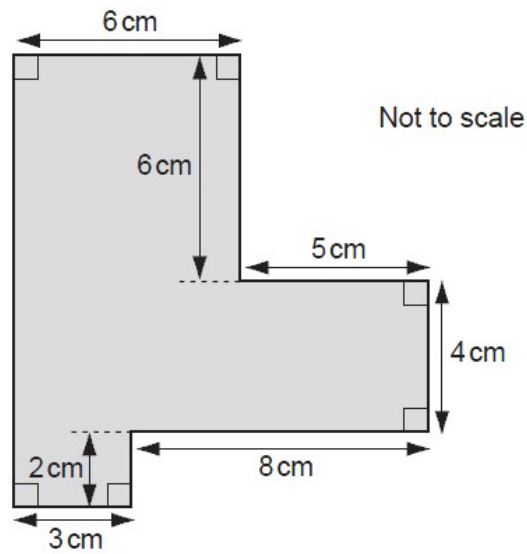
15. How many tens are there in twelve thousands and ninety -five? [5]

16. How many 3-digit numbers can be formed using 5, 6, 7 and 8 if the digits can be repeated? [5]

17. How many 3-digit numbers can be formed using 5, 6, 7 and 8 if the digits cannot be repeated? [5]

18. In a bag, Bob has some jelly beans of different colours: 4 yellow and 5 green. If he pulls one jelly bean out of the bag how likely is it the jelly bean is yellow? [5]

19. Find the perimeter and area of the following shape.



(a) Perimeter:

[5]

(b) Area:

[5]
