

Year 4 Term 3 Homework

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

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5 Year 4 Term 3 Week 5 Homework

5.1 Topic 1 — Length, Area & Volume

1. Change the units in the brackets:

(a) $1.25 \text{ m} = \underline{\hspace{2cm}}$ (cm).

(b) $1.25 \text{ km} = \underline{\hspace{2cm}}$ (m).

(c) $1.05 \text{ m} = \underline{\hspace{2cm}}$ (mm).

(d) $1.2 \text{ m}^2 = \underline{\hspace{2cm}}$ (cm^2).

(e) $15 \text{ cm}^2 = \underline{\hspace{2cm}}$ (mm^2).

(f) $1.5 \text{ m}^3 = \underline{\hspace{2cm}}$ (cm^3).

(g) $1.25 \text{ Litres} = \underline{\hspace{2cm}}$ (cm^3).

(h) $1200 \text{ mL} \underline{\hspace{2cm}}$ (Litres).

2. The volume of a cube is 512 cm^3 . What is the total length of all edges?

3. Adam poured 250 mL of cola from a 2 L bottle. How many more drinks of the same size can he have before the bottle is empty?

4. A water tank 5 m by 4 m by 2.5 m is $\frac{2}{5}$ filled with water. How many litres of water is in the tank?

5. A gymnast lined up three tumbling mats in a row. If each mat measured 3 m by 2 m, what area of the floor was covered by the mats?

5.2 Topic 2 — Mass

1. Change the units in brackets:

(a) $1250 \text{ g} = \text{_____} \text{ (kg)}$.

(b) $1.25 \text{ t} = \text{_____} \text{ (kg)}$.

(c) $1.25 \text{ kg} = \text{_____} \text{ (g)}$.

(d) $0.125 \text{ kg} = \text{_____} \text{ (g)}$.

(e) $0.25 \text{ of } 8 \text{ kg} = \text{_____} \text{ (g)}$.

(f) $25\% \text{ of } 4 \text{ kg} = \text{_____} \text{ (kg)}$.

(g) $\frac{5}{8} \text{ kg} = \text{_____} \text{ (g)}$.

(h) $\frac{1}{8} \text{ t} = \text{_____} \text{ (kg)}$.

(i) $\frac{3}{4} \text{ of } 8 \text{ kg} = \text{_____} \text{ (g)}$.

2. Express 15.75 kg in grams . _____

3. Express 125 g as a fraction of 2 kg in its simplest form. _____

4. A box containing chocolates has a mass of 800 g. The mass of the packaging is 45 g. What is the total mass of the chocolates in 12 boxes?

5. David weighed 112 kg last summer. He went on a diet and lost 38 kg but then he gained another 15kg. How heavy is David now?

6. Cat food costs \$2.00 for a 500 g packet. Carol buys $5\frac{1}{2}$ kg of cat food. How much does she have to pay?

5.3 Topic 3 — Temperature

1. The normal body temperature is:
(A) 25°C (B) 30°C (C) 37°C (D) 42°C

2. What is the rise in temperature from:
(a) 15°C to 37°C _____
(b) -4°C to 27°C _____
(c) -32°C to -18°C _____

3. The temperature inside an office is 22°C and outside is 33°C . What is the difference in temperature?

4. The temperature inside the house is 12°C but outside is -2°C . What is the difference in temperature?

5. If the midday temperatures for last week were 23°C , 16°C , 18°C , 20°C , 19°C , 17°C and 20°C . What was the average temperature for these days?

6. Today's temperature is 25°C . Tomorrow it is going to be 8°C lower. What will be the temperature tomorrow?

7. A student wants to raise the temperature of a liquid from 22°C to 118°C in the lab. By how much must he raise it?

5.4 Topic 4 — Time

1. Find the difference in hours and minutes between the following times:

(a) 6:15 a.m. and 3:05 p.m. _____

(b) 5:47 a.m. and 6:11 p.m. _____

(c) 1106 and 1558 _____

(d) 0425 and 2208 _____

2. Change the units in brackets:

(a) $3\frac{1}{3}$ hours = _____ (minutes).

(b) 18 minutes = _____ (seconds).

(c) 5 years = _____ (months).

(d) 210 minutes = _____ (hours).

(e) 3 weeks = _____ (hours).

(f) 1800 seconds = _____ (hour).

3. How many hours and minutes are there from 8:25 a.m. to 7:15p.m.?

4. How many hours and minutes are there from 6:45 a.m. to 6:05 p.m.?

5. From 12 h 12 min take away 7 h 28 min.

6. Dolly had a baby-sitting job on Saturday afternoon. She worked for two and a half hours and finished at 4:30 pm. Before she went to work, she practised her violin for 15 minutes. At what time did she begin her practice?

5.5 Topic 5 — Number Patterns

① 33, 38, 44, 51, 59, 68, 78, ___ , ___

② 43, 36, 37, 29, 30, 21, 22, ___ , ___

③ 60, 53, 56, 48, 51, 42, 45, ___ , ___

④ 25, 31, 39, 49, 61, 75, 91, ___ , ___

⑤ 10, 17, 23, 28, 32, 35, 37, ___ , ___

⑥ 1, 3, 7, 13, 21, 31, 43, ___ , ___

⑦ 4, 8, 10, 20, 22, 44, 46, ___ , ___

⑧ 93, 91, 87, 81, 73, 63, 51, ___ , ___

⑨ 13, 15, 14, 16, 15, 17, 16, ___ , ___

⑩ 58, 50, 55, 46, 51, 41, 46, ___ , ___

Score: _____

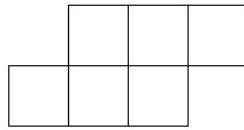
5.6 Quiz 5

5.6.1 Part A

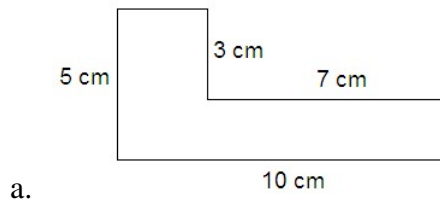
- What is the next number in this sequence? 49, 64, 81, 100, ?
(A) 11 (B) 119 (C) 121 (D) 144
- What number belongs in the box so as to make the number sentence true? $\boxed{?} \div 5 + 12 = 14$
(A) 15 (B) 10 (C) 25 (D) 1
- Together a computer and its software cost \$2000. The software cost \$600 more than the computer. What was the cost of the computer?
(A) \$500 (B) \$700 (C) \$900 (D) \$1300
- Mr Lee travelled at a steady pace covering 237 km in 11 hours. Which mathematical calculation will tell us how many km he travelled in the first hour?
(A) $237 + 11 =$ (B) $237 \times 11 =$ (C) $237 \div 11 =$ (D) $237 - 11 =$
- If five ice-creams can be bought for a total of \$4.00, what would I pay for six ice-creams?
(A) \$2.40 (B) \$3.60 (C) \$4.80 (D) \$1.60
- Which calculation gives the smallest amount?
(A) $7 \times 5 \times 0$ (B) $6 \times 5 \times 1$ (C) $4 \times 3 \times 2$ (D) $3 \times 2 \times 2$
- Mary has the numbers 2, 4, 7 and 9 on four cards. What is the largest number she can make using all four cards?
(A) 2479 (B) 4792 (C) 9742 (D) 9472
- Linda wants to know how heavy their family dog is. The best measurement to use would be:
(A) grams (B) kilograms (C) tonnes (D) litres
- It takes Michael and Amy fifteen minutes to walk from their home to school. If they arrived the school at 8:42 a.m, what time did they leave home?
(A) 8:17 a.m. (B) 8:27 a.m. (C) 8:23 a.m. (D) 8:57 a.m.
- The first leap year after the 2008 will be:
(A) 2010 (B) 2012 (C) 2014 (D) 2016

5.6.2 Part B

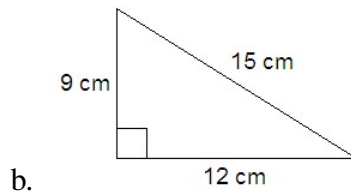
1. How many squares, of any size, are in this shape? _____



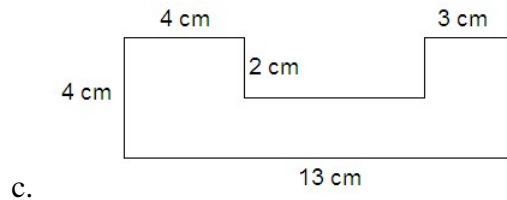
2. Find the perimeters and the areas of the following figures:



(a) P = _____ , A = _____



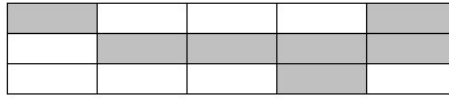
(b) P = _____ , A = _____



(c) P = _____ , A = _____

5.6.3 Part C

1. For the figure shown below, if each small rectangle is 1 cm wide and 3 cm long:



- (a) What fraction of this big rectangle is shaded?

- (b) What is the perimeter of the big rectangle?

- (c) What is the total shaded area in cm^2 ?

2. Find the difference between the number of faces and the number of edges of a hexagonal prism?

3. Find the sum of $0.5 + \frac{1}{2} + 3 =$ _____

4. What is the value of 4 in the number 246.75? _____

5. Consider the number 2335. What is the difference in the value of 3's?

6. How much would each person get if \$175 was shared by 5 people?

7. How many prime numbers are there between 4 and 16?

8. What would you get when you double the number that is 15 bigger than 53?

9. If yesterday was Friday, what was 9 days ago?

10. How many minutes are there in five sixths of half an hour?

5.6.4 Part D

1. I am between 5 and 28 years old. Last year my age was a multiple of 6. Next year my age will be a multiple of 5. How old am I?

2. Mike is paid \$12 per hour for work done between 9 a.m. and 5 p.m. He is paid \$18 per hour for work done after 5 p.m. How much would he be paid working one day from 11:30 am to 7:30 pm?

3. The average weight of 3 girls is 45 kg. The average weight of 2 boys is 50 kg. Find the average weight of these five children.

4. A rectangular card has a perimeter of 28 cm and an area of 45 cm^2 . What are its dimensions in centimetres?

5. When you add two numbers you get 15, and when you multiply them you get 26. What is the difference of these two numbers?
