

Year 3 Term 4 Homework

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

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4 Year 3 Term 4 Week 4 Homework

4.1 Topic 1 — Fraction

4.1.1 Adding & Subtracting Fractions 2

① $\frac{3}{8} - \frac{3}{9} =$ _____

② $2\frac{3}{4} - 1\frac{2}{6} =$ _____

③ $1\frac{3}{6} - 1\frac{3}{9} =$ _____

④ $3\frac{1}{2} + \frac{2}{3} =$ _____

⑤ $2\frac{1}{4} - 1\frac{1}{2} =$ _____

⑥ $\frac{6}{7} + \frac{6}{9} =$ _____

⑦ $\frac{3}{9} - \frac{1}{4} =$ _____

⑧ $2\frac{6}{10} - \frac{3}{4} =$ _____

⑨ $3\frac{2}{3} + 2\frac{2}{4} =$ _____

⑩ $\frac{2}{4} - \frac{2}{5} =$ _____

Score: _____

4.1.2 Multiplying Fractions 4

$$\textcircled{1} \quad 1\frac{5}{6} \times 1\frac{1}{2} = \underline{\hspace{10cm}}$$

$$\textcircled{2} \quad \frac{1}{7} \times \frac{3}{6} = \underline{\hspace{10cm}}$$

$$\textcircled{3} \quad \frac{1}{4} \times 1\frac{2}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{4} \quad \frac{1}{3} \times 1\frac{5}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{5} \quad \frac{1}{2} \times 1\frac{4}{9} = \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad 1\frac{2}{7} \times 1\frac{1}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{7} \quad 1\frac{6}{7} \times \frac{1}{6} = \underline{\hspace{10cm}}$$

$$\textcircled{8} \quad 1\frac{4}{5} \times 1\frac{2}{5} = \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad 1\frac{1}{8} \times \frac{7}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{10} \quad \frac{3}{5} \times \frac{5}{9} = \underline{\hspace{10cm}}$$

Score:

4.1.3 Dividing Fractions 4

$$\textcircled{1} \quad 1\frac{1}{7} \div \frac{2}{3} = \underline{\hspace{10cm}}$$

$$\textcircled{2} \quad \frac{1}{6} \div 1\frac{2}{6} = \underline{\hspace{10cm}}$$

$$\textcircled{3} \quad \frac{2}{5} \div 1\frac{5}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{4} \quad \frac{2}{4} \div \frac{3}{6} = \underline{\hspace{10cm}}$$

$$\textcircled{5} \quad 1\frac{4}{6} \div 1\frac{3}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad 1\frac{2}{8} \div \frac{3}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{7} \quad \frac{2}{3} \div \frac{1}{2} = \underline{\hspace{10cm}}$$

$$\textcircled{8} \quad 1\frac{5}{6} \div \frac{1}{3} = \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad \frac{1}{3} \div 1\frac{6}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{10} \quad \frac{1}{5} \div 1\frac{4}{5} = \underline{\hspace{10cm}}$$

Score:

4.2 Topic 2 — Algebra**4.2.1 Number Problem 4**

- ① _____ Four times a number is 8. What is the number?
- ② _____ Seven more than seven times a number is 21. What is the number?
- ③ _____ Seven is equal to the quotient of a number and 4. Find the number.
- ④ _____ The difference of a number and ten is equal to 11. What is the number?
- ⑤ _____ One-half of a number decreased by 2 is 2. Find the number.
- ⑥ _____ Twice a number increased by 11 is 29. Find the number.
- ⑦ _____ One less than nine times a number is 80. Find the number.
- ⑧ _____ The sum of a number and six is 17. Find the number.
- ⑨ _____ Seven times a number diminished by 24 is 39. Find the number.
- ⑩ _____ The product of three and a number is 27. What is the number?

Score:

4.2.2 Equations 4

$$\textcircled{1} \quad z - 4 = -1 \quad \underline{\hspace{10cm}}$$

$$\textcircled{2} \quad 7z - 2 = 61 \quad \underline{\hspace{10cm}}$$

$$\textcircled{3} \quad 2z + 5 = 23 \quad \underline{\hspace{10cm}}$$

$$\textcircled{4} \quad z + 3 = 7 \quad \underline{\hspace{10cm}}$$

$$\textcircled{5} \quad y + 5 = 13 \quad \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad y + 2 = 11 \quad \underline{\hspace{10cm}}$$

$$\textcircled{7} \quad 4 + 7x = 67 \quad \underline{\hspace{10cm}}$$

$$\textcircled{8} \quad 6x + 8 = 62 \quad \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad 2x - 8 = 10 \quad \underline{\hspace{10cm}}$$

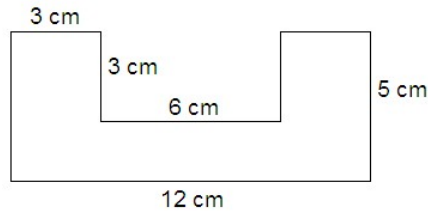
$$\textcircled{10} \quad 2 + 4y = 26 \quad \underline{\hspace{10cm}}$$

Score:

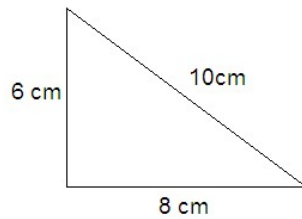
4.3 Topic 3 — Measurements

Exercise 4.3.1 Find the perimeters (in cm) and areas (in cm^2) of the following figures:

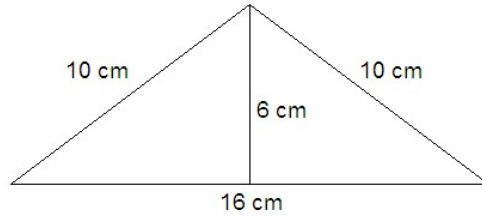
1. $P =$ _____ , $A =$ _____



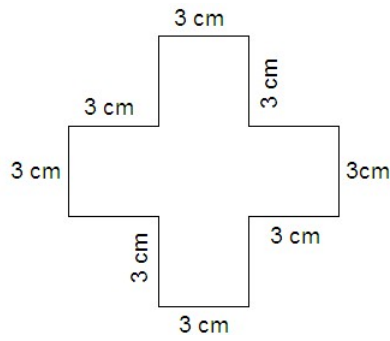
2. $P =$ _____ , $A =$ _____



3. $P =$ _____ , $A =$ _____



4. $P =$ _____ , $A =$ _____



4.4 Topic 4 — Problem Solving

Exercise 4.4.1

1. At a fruit market Jane bought 2 kg of apples at \$3.50/kg and 5 kg of pears at \$4.50/kg. How much did she spend?

2. Watermelons are \$3.00 each and mangoes are sold at 6 for \$7.20. How much for two of each?

3. If I paid \$20.00 for 4 kg of tomatoes which cost \$3.50/kg, how much change would I receive?

4. Three children were about to divide 30 apples amongst themselves when 3 more children said they wanted to join in. How many apples did each child get?

Exercise 4.4.2

1. George collected the same number of baseball cards every day for a week. At the end of the week his friend Michael gave him 7 more cards. He gave Michael 9 of his cards. George gave half of his cards to his brother Joe and was left with 27 cards. How many cards did George collect each day during the week?

2. Martin counted the marbles he had collected. He counted more than 40 but less than 60. When he put the marbles in groups of 5, he had 2 left over. When he put them in groups of 4, he had 1 left over. How many marbles did Martin collect?

3. There are twenty-seven students in a class. There are three more boys than girls. How many girls are in the class?

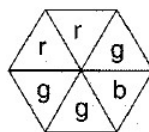
4. The average of 3 boys Tom, Bob and Ken is 8 years. If Tom's age is 12 years and Bob is 9 years old, how old is Ken?

4.5 Topic 5 — Chance and Data

Probability is the chance of an outcome happening from all of the possible outcomes.

Exercise 4.5.1

1. What is the chance Michael tossing two fifty cent coins and then both coming up heads?
(A) one in two (B) one in three (C) two in three (D) one in four
2. I have a bag containing 10 red marbles. What is the chance of drawing out a blue marble?
(A) 10 out of 10 (B) 1 out of 9 (C) 0 out of 10 (D) 1 out of 2
3. A box contains 5 green marbles and 3 red marbles. What is the chance of drawing a green marble?
(A) 3 out of 5 (B) 3 out of 8 (C) 5 out of 8 (D) 1 out of 2
4. From this list select the one that is most likely to happen.
(A) All schools will be abolished.
(B) After year 3 you will go into year 4.
(C) Next week is another school week.
(D) I'll be better at Maths than my friends.
5. The list of possible outcomes for the total of upper numbers when two dice are rolled are the number:
(A) 1 to 12 (B) 2 to 12 (C) 0 to 12 (D) 2 to 36
6. Cathy has a bag with 5 red marbles, 6 green marbles and 4 yellow marbles. Which colour has the best chance of being pulled out?
(A) red (B) green (C) yellow (D) any of them
7. The Easter Raffle sold 100 tickets. Jessica has number 78. What is her chance of winning this lovely basket of eggs?
(A) 78 out of 100 (B) 1 out of 100 (C) 1 out of 2 (D) 100 chances
8. Here is a colour hexagonal spinner. When it is spun the most likely colour to land on is:



- (A) red (B) green (C) blue (D) all equally possible

4.6 Quiz 4

1. Alice scored 82, 84, 85 and 77 in four successive topic tests. What is her average score?

2. If 5 pencils cost \$4 altogether, how much would you pay for one dozen of them?

3. What is the remainder when 317 is divided by 13?

4. What fraction of 2kg is 250g?

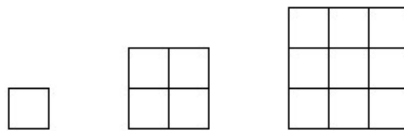
5. If a kilogram of fish costs \$18, how much would you pay for three quarters of a kilogram?

6. I have \$25. If I spend \$8.25 on food and \$3.80 on drinks, how much change should I get?

7. Amy went to the Easter Show. She bought three show-bags, one ice-cream and went on two rides. How much money did Amy spend? (The show-bags cost \$5.00 each, ice-cream cost \$1.25 each and Merry-go-around cost \$3.20 per ride)

8. How many lines of symmetry does a rectangle have?

9. This pattern uses small squares like the first small square to make big square. How many of these small squares will be in the fifth big square?



10. What is the next number in this number pattern? 72, 70, 68, 65, 63, 59, 57, . . .

11. Cathy is reading a book with 480 pages. If she reads for 2 hours a day, and she can read 30 pages in one hour, how many days will it take her to read the whole book?
(A) 6 days (B) 8 days (C) 9 days (D) 12 days
12. Four balls can be fitted into a small box. A large box holds 4 times as much as the small box. With 64 balls, how many large boxes will be needed?
(A) 4 (B) 8 (C) 12 (D) 16
13. Daniel has three packets of lollies each containing 35 lollies. If he wants to divide the lollies equally between 7 people, how many lollies will each person receive?
(A) 11 (B) 13 (C) 15 (D) 10
14. The distance from the City to Dee Why Beach is 28 kilometres. We have travelled $\frac{3}{4}$ of the way, how much further do we have to go?
(A) 14 km (B) 7 km (C) 21 km (D) None of these
15. Each table at a restaurant can seat 8 people. How many people were at the restaurant if 12 tables were full?
(A) 98 (B) 96 (C) 120 (D) 160
16. The bus fare to the Old Sydney Town is \$12 for adults and \$8 for children. How much will it cost Mike, Luke, Ben and their parents to take the bus?
(A) \$36 (B) \$58 (C) \$56 (D) \$48
17. Ray receives \$5 pocket money each week and saves \$2 of it. How long will it take him to save \$100?
(A) 10 weeks (B) 20 weeks (C) 40 weeks (D) 50 weeks
18. Each hour 25 mL of water leaks from the tap. How much will leak in a day?
(A) 600 mL (B) 800 mL (C) 1000 mL (D) 300 mL
19. Which is the least amount?
(A) 5×19 (B) 6×16 (C) 7×15 (D) 8×14
20. Which calculation will give the next number in this series? 49, 47, 51, 49, 53, 51,
(A) $27 + 28$ (B) $86 \div 2$ (C) 27×3 (D) 16×4