

Year 3 Term 3 Homework

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

Table of contents

8	Year 3 Term 3 Week 8 Homework	1
8.1	Topic 1 — Fraction	1
8.1.1	Simplifying Fractions 3	1
8.1.2	Equivalent Fractions 3	2
8.1.3	Adding Fractions 4	3
8.1.4	Subtracting Fractions 4	4
8.2	Topic 2 — Time Passages	5
8.2.1	Time Passages 5	5
8.2.2	Time Passages 6	6
8.3	Topic 3 — Algebra	7
8.3.1	Number Problem 3	7
8.3.2	Equations 3	8
8.4	Topic 4 — Problem Solving 1 (Averaging)	9
8.5	Topic 5 — Problem Solving 2 (Guess and Check)	10
8.6	Quiz 8	11

This edition was printed on February 15, 2017.

Camera ready copy was prepared with the **LaTeX2e** typesetting system.

Copyright © 2000 - 2017 Yimin Math Centre (www.yiminmathcentre.com)

8 Year 3 Term 3 Week 8 Homework

8.1 Topic 1 — Fraction

8.1.1 Simplifying Fractions 3

$$\textcircled{1} \frac{54}{6} = \underline{\hspace{2cm}} \quad \textcircled{2} \frac{8}{12} = \underline{\hspace{2cm}} \quad \textcircled{3} \frac{24}{8} = \underline{\hspace{2cm}}$$

$$\textcircled{4} \frac{50}{20} = \underline{\hspace{2cm}} \quad \textcircled{5} \frac{20}{16} = \underline{\hspace{2cm}} \quad \textcircled{6} \frac{10}{8} = \underline{\hspace{2cm}}$$

$$\textcircled{7} \frac{80}{35} = \underline{\hspace{2cm}} \quad \textcircled{8} \frac{30}{5} = \underline{\hspace{2cm}} \quad \textcircled{9} \frac{60}{70} = \underline{\hspace{2cm}}$$

$$\textcircled{10} \frac{18}{54} = \underline{\hspace{2cm}} \quad \textcircled{11} \frac{63}{42} = \underline{\hspace{2cm}} \quad \textcircled{12} \frac{6}{48} = \underline{\hspace{2cm}}$$

$$\textcircled{13} \frac{35}{7} = \underline{\hspace{2cm}} \quad \textcircled{14} \frac{9}{63} = \underline{\hspace{2cm}} \quad \textcircled{15} \frac{90}{63} = \underline{\hspace{2cm}}$$

$$\textcircled{16} \frac{48}{8} = \underline{\hspace{2cm}} \quad \textcircled{17} \frac{9}{12} = \underline{\hspace{2cm}} \quad \textcircled{18} \frac{40}{5} = \underline{\hspace{2cm}}$$

Score: _____

8.1.2 Equivalent Fractions 3

① $\frac{3}{12} = \frac{3}{96} = \frac{12}{36}$

② $\frac{6}{12} = \frac{6}{60} = \frac{60}{48}$

③ $\frac{3}{6} = \frac{18}{30} = \frac{9}{9}$

④ $\frac{2}{11} = \frac{2}{77} = \frac{16}{66}$

⑤ $\frac{8}{12} = \frac{8}{84} = \frac{72}{96}$

⑥ $\frac{1}{12} = \frac{9}{48} = \frac{8}{8}$

⑦ $\frac{5}{6} = \frac{5}{42} = \frac{45}{36}$

⑧ $\frac{3}{11} = \frac{3}{33} = \frac{24}{110}$

⑨ $\frac{1}{4} = \frac{1}{32} = \frac{5}{12}$

⑩ $\frac{7}{12} = \frac{7}{108} = \frac{35}{108}$

⑪ $\frac{11}{12} = \frac{11}{120} = \frac{33}{120}$

⑫ $\frac{7}{11} = \frac{7}{77} = \frac{35}{66}$

⑬ $\frac{1}{5} = \frac{1}{50} = \frac{8}{20}$

⑭ $\frac{6}{9} = \frac{6}{36} = \frac{30}{18}$

⑮ $\frac{2}{3} = \frac{2}{9} = \frac{10}{12}$

⑯ $\frac{4}{12} = \frac{4}{60} = \frac{8}{60}$

⑰ $\frac{1}{2} = \frac{1}{10} = \frac{6}{18}$

⑱ $\frac{1}{7} = \frac{1}{35} = \frac{3}{70}$

⑲ $\frac{2}{7} = \frac{2}{35} = \frac{18}{35}$

⑳ $\frac{1}{6} = \frac{1}{9} = \frac{7}{18}$

Score: _____

8.1.3 Adding Fractions 4

$$\textcircled{1} \quad \frac{2}{9} + \frac{2}{6} = \underline{\hspace{10cm}}$$

$$\textcircled{2} \quad \frac{6}{9} + \frac{4}{6} = \underline{\hspace{10cm}}$$

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

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

$$\textcircled{5} \quad \frac{1}{7} + \frac{1}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad \frac{5}{11} + \frac{1}{5} = \underline{\hspace{10cm}}$$

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

$$\textcircled{8} \quad \frac{2}{3} + \frac{1}{9} = \underline{\hspace{10cm}}$$

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

$$\textcircled{10} \quad \frac{5}{6} + \frac{2}{3} = \underline{\hspace{10cm}}$$

Score:

8.1.4 Subtracting Fractions 4

$$\textcircled{1} \quad 3\frac{3}{6} - 3\frac{1}{6} = \underline{\hspace{10em}}$$

$$\textcircled{2} \quad 1\frac{6}{7} - 1\frac{5}{7} = \underline{\hspace{10em}}$$

$$\textcircled{3} \quad 2\frac{2}{3} - 2\frac{1}{3} = \underline{\hspace{10em}}$$

$$\textcircled{4} \quad 2\frac{1}{7} - \frac{5}{7} = \underline{\hspace{10em}}$$

$$\textcircled{5} \quad 2\frac{1}{8} - \frac{2}{8} = \underline{\hspace{10em}}$$

$$\textcircled{6} \quad 3\frac{3}{5} - 3\frac{2}{5} = \underline{\hspace{10em}}$$

$$\textcircled{7} \quad 1\frac{2}{3} - 1\frac{1}{3} = \underline{\hspace{10em}}$$

$$\textcircled{8} \quad 2\frac{2}{5} - 1\frac{1}{5} = \underline{\hspace{10em}}$$

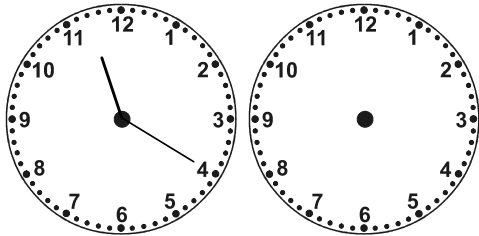
$$\textcircled{9} \quad 1\frac{2}{4} - \frac{1}{4} = \underline{\hspace{10em}}$$

$$\textcircled{10} \quad 1\frac{6}{8} - 1\frac{4}{8} = \underline{\hspace{10em}}$$

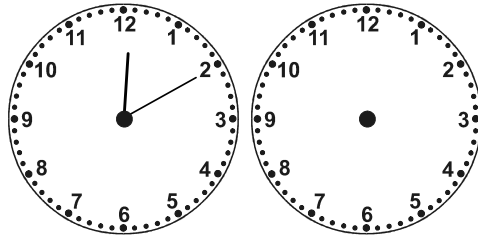
Score:

8.2 Topic 2 — Time Passages

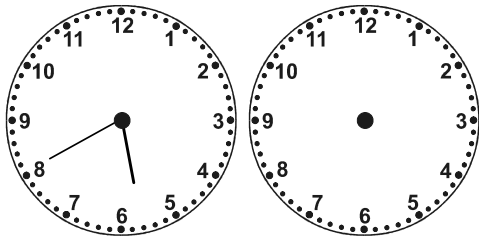
8.2.1 Time Passages 5



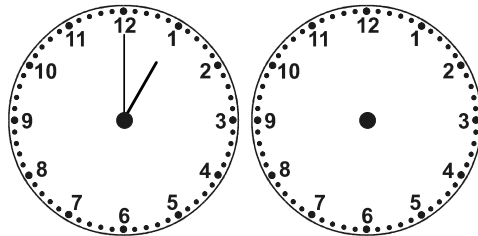
① What time will it be in 2 hr 40 min ?



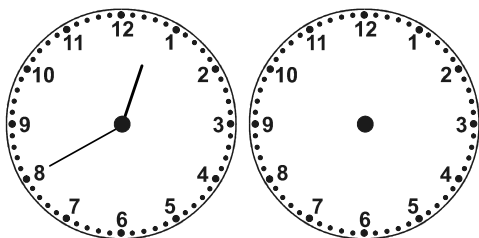
② What time will it be in 1 hr 20 min ?



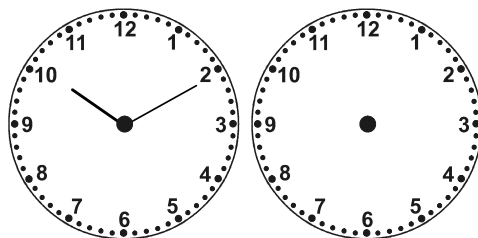
③ What time will it be in 2 hr 50 min ?



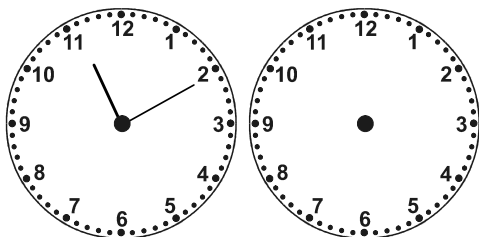
④ What time will it be in 1 hr 30 min ?



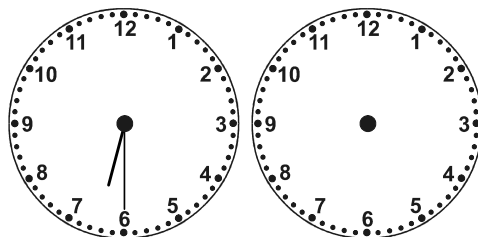
⑤ What time will it be in 2 hr 10 min ?



⑥ What time will it be in 2 hr 10 min ?



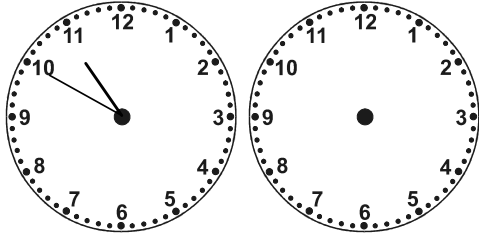
⑦ What time will it be in 2 hr 20 min ?



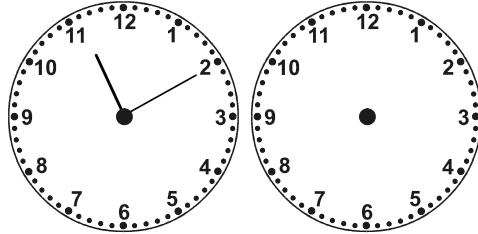
⑧ What time will it be in 2 hr 40 min ?

Score: _____

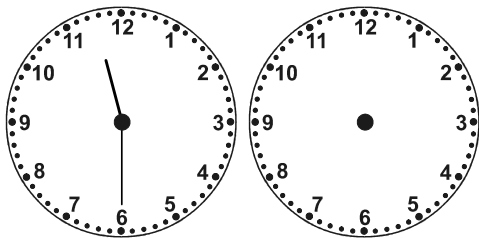
8.2.2 Time Passages 6



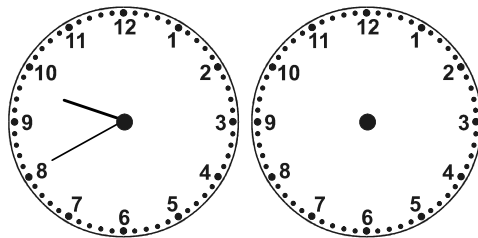
① What time was it 1 hr 50 min ago?



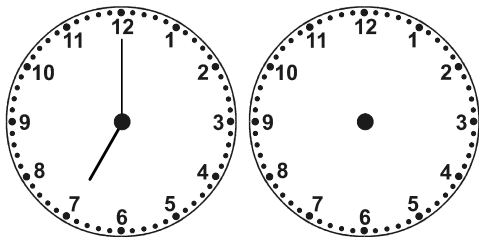
② What time was it 2 hr 40 min ago?



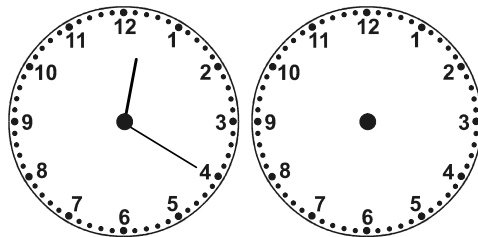
③ What time was it 2 hr 10 min ago?



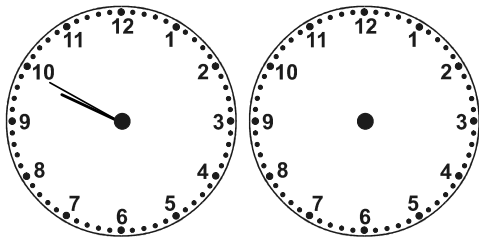
④ What time was it 1 hr 50 min ago?



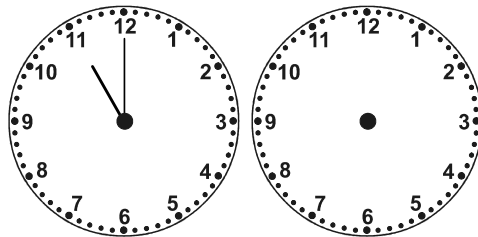
⑤ What time was it 2 hr 30 min ago?



⑥ What time was it 3 hr ago?



⑦ What time was it 1 hr 30 min ago?



⑧ What time was it 1 hr 30 min ago?

Score: _____

8.3 Topic 3 — Algebra

8.3.1 Number Problem 3

Exercise 8.3.1

1. The difference of a number and three is equal to 11. What is the number?

2. The sum of a number and three is 10. Find the number.

3. Five times a number increased by 6 is 56. Find the number.

4. Twice a number is 12. What is the number?

5. A number diminished by 6 is 14. Find the number.

6. The quotient of a number and six is 8. Find the number.

7. Two times a number decreased by 2 is 28. Find the number.

8. Eight less than a number is 24. Find the number.

8.3.2 Equations 3

Exercise 8.3.2

1. $2x + 4 = 12$

2. $y - 4 = 14$

3. $x + 7 = 21$

4. $3y - 2 = 19$

5. $4x + 2 = 18$

6. $2y + 5 = 21$

7. $5x - 3 = 17$

8. $9y + 6 = 69$

8.4 Topic 4 — Problem Solving 1 (Averaging)

Exercise 8.4.1

1. Find the average of 26 and 30.

2. Find the average of 12, 24 and 36.

3. Tracy weighs 26 kg, Jane weighs 28 kg and Bonnie weighs 30 kg. What is the average weight of the 3 girls?

4. Bob has four marbles. Two large marbles weigh 20 g each and two small marbles weigh 12 g each. What is the average weight of these four marbles?

5. Michael spent \$21 last week. On average how much did he spend each day?

6. Each term Jessica has a topic test. Last year she scored 80, 82, 84 and 86. What was her average score?

8.5 Topic 5 — Problem Solving 2 (Guess and Check)

Exercise 8.5.1

1. One number is 5 times another. Their sum is 24. Find the numbers.

2. The sum of two numbers is 16 and the difference of these two numbers is 2. Find the numbers.

3. The product of two numbers is 32 and their difference is 4. What are the numbers?

4. The product to two numbers is 48 and their sum is 14. Find the numbers.

5. Can you guess what number I am? These clues will help you. I have two digits. You can divide me exactly by 4 and 6. My last digit is 4.

6. There are 12 coins consisting of 5-cent coins and 20-cent coins. The total amount is equal to \$1.80. How many of each type?

8.6 Quiz 8

1. Round off 678 to the nearest 100. _____

2. $300 =$ _____ tens.

3. $5168 =$ _____ hundreds, 6 tens and 8 ones.

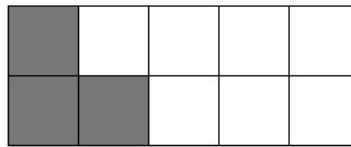
4. Circle the large number in each pair:

(a) 6085 , 6508

(b) 1010 , 1100

(c) 1012 , 1021

5. What fraction has been shaded? _____



6. Which 4 coins together are worth \$3.70? _____

7. What change would I have from \$10 if I spent \$2.68? (round off your answer to nearest 10 cents)

8. If the temperature was $42^{\circ}C$. It would be a (hot, cold) _____ day.

9. How many minutes in $3\frac{1}{2}$ hours? _____

10. $4679 = 46$ hundreds, _____ ones.

11. $4679 = 4$ thousands, _____ ones.

12. $4679 = 4$ thousands, _____ tens, 9 ones.

13. $4679 =$ _____ tens, 9 ones.

14. $4679 =$ _____ ones.

15. Continue each pattern by writing down the next two numbers:

(a) 2, 9, 16, 23, _____, _____

(b) 81, 76, 74, 68, _____, _____

(c) 29, 31, 30, 33, _____, _____

16. Find the LCM of 6 and 8.

17. Find the LCM of 12 and 8.

18. $1\frac{1}{6} + 3\frac{2}{6} =$ _____

19. $3\frac{1}{6} - 1\frac{2}{6} =$ _____

20. How many seconds in $4\frac{1}{2}$ minutes?

21. How many hours in $2\frac{1}{3}$ days?

22. How many of these letters have more than one line of symmetry? _____

E , T , U , O , H , S , M and W

23. Convert these lengths into the units stated: (1m = 100cm = 1000mm)

(a) 12 m = _____ cm.

(b) 12 cm = _____ mm.

(c) 12 m = _____ mm.

24. Convert these larger unit into smaller ones: (1 km = 1000 m, 1L = 1000 ml, 1 kg = 1000 g)

(a) 12 km = _____ m.

(b) 12 L = _____ mL.

(c) 12 kg = _____ g.

25. One more than 499 is:
(A) 400 (B) 500 (C) 4991 (D) 1499
26. Which of the following statement is true?
(A) $321 < 312$ (B) $345 < 354$ (C) $234 > 243$ (D) $12 + 23 = 25 + 11$
27. Apple are sold at 3 for \$2. Jessica bought 12 apples, how much did she pay?
(A) \$4.00 (B) \$6.00 (C) \$8.00 (D) \$12.00
28. If yesterday was Friday, what day will it be in 9 days?
(A) Monday (B) Tuesday (C) Wednesday (D) Thursday
29. If tomorrow is Sunday, what day was it 9 days ago?
(A) Thursday (B) Friday Saturday (C) (D) Monday
30. Peter bought 3 apples for 55c each. He gave the shopkeeper \$2. How much change should he get?
(A) \$1.55 (B) \$1.65 (C) \$0.45 (D) \$0.35
31. What was the real time if my watch, which is 5 minutes slow, was showing 9:32 a.m.?
(A) 9:35 a.m. (B) 9:37 a.m. (C) 9:27 a.m. (D) 8:27 a.m.
32. What does the digit 4 stand for in 23456?
(A) 4×10 (B) 4×1 (C) 4×1000 (D) 4×100
33. $5 \times 6 = 10 \times \boxed{?}$
(A) 2 (B) 5 (C) 3 (D) 6
34. How many halves are there in $3\frac{1}{2}$?
(A) $\frac{1}{2}$ (B) 1 (C) 3 (D) 7
35. What is the smallest even number more than 200?
(A) 202 (B) 203 (C) 198 (D) 201
36. Which number is made up of 3 hundreds, 5 tens and 8 units?
(A) 538 (B) 308 (C) 358 (D) 350