MATH | GRADES 2 TO 3 | ANSWER KEY

# Telling Time and Counting Money

Hours, minutes, coins, and bills for everyday classroom and store problems

**IN THIS PACKET YOU WILL LEARN TO**

- ✓ Read an analog clock to the nearest five minutes and to the minute
- ✓ Find how much time has passed between two times
- ✓ Count mixed coins and write the total in cents or dollars
- ✓ Solve one-step and two-step money word problems

Name _____

Teacher _____

Class _____

**INSIDE THIS PACKET**


2 How a Clock Works
3 Coins You Can Count
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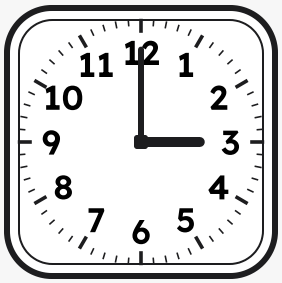
Name _____ Date _____

# How a Clock Works

ANSWER KEY LEARN

Read this page with your teacher, and look at each clock before you read the steps next to it.

THE HOUR AND THE MINUTE

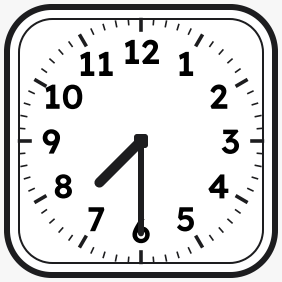



## This clock shows 3:00.

1. The short hand points to the hour, which is 3.
2. The long hand points to the minutes. When it points to 12, the minutes are 00.
3. We write this time as 3:00, and we say three o'clock.

**3:00**

HALF PAST THE HOUR




## This clock shows 7:30.

1. The long hand points to 6, and 6 means 30 minutes.
2. The short hand sits halfway between 7 and 8.
3. We write this time as 7:30, and we say seven thirty or half past seven.

**7:30**

WORDS TO KNOW

| | |
|---|---|
| **hour hand** | The short hand on a clock. It tells the hour. |
| **minute hand** | The long hand on a clock. It tells the minutes. |
| **o'clock** | A time when the minute hand points to 12, such as 4:00. |
| **half past** | A time when the minute hand points to 6, such as 4:30. |

Name _____ Date _____

# Coins You Can Count

ANSWER KEY LEARN

Each coin tile shows its value. Read the steps, then try the two practice totals at the bottom.

WORDS TO KNOW

| | |
|---|---|
| **penny** | A penny is worth 1¢. |
| **nickel** | A nickel is worth 5¢. |
| **dime** | A dime is worth 10¢. |
| **quarter** | A quarter is worth 25¢. |
| **dollar** | A dollar bill is worth 100¢, which we write as $1.00. |

COUNT THE COINS

## Start with the coins that are worth the most.

1. A quarter is 25¢, and a dime is 10¢, so 25 + 10 = 35.
2. Add a nickel, which is 5¢, so 35 + 5 = 40.
3. Add two pennies, which are 2¢, so 40 + 2 = 42.

**The total is 42¢.**

1. 


Total: 42¢

2. 

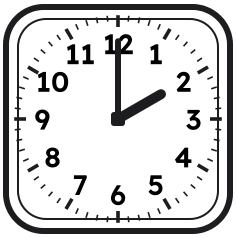

Total: 35¢

Name _____ Date _____

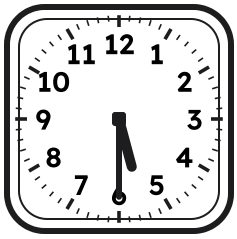
# Read the Clocks

ANSWER KEY | GUIDED PRACTICE

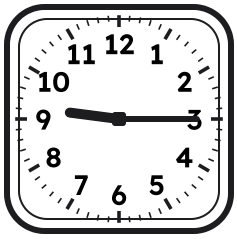
Write the time under each clock that already has hands. On the last two clocks, draw the hands to match the time that is written.

1. 

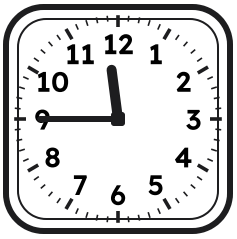
2:00

2. 

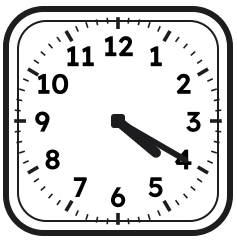
5:30

3. 

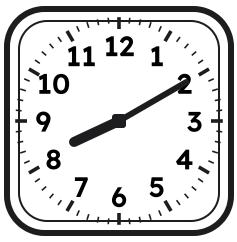
9:15

4. 

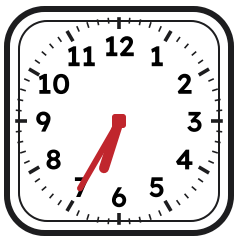
11:45

5. 

4:20

6. 

8:10

7. 

6:35

8. 

1:50

**REMEMBER**

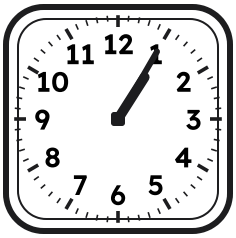
Each number on the clock stands for 5 minutes when you read the long hand. The 1 is 5 minutes, the 2 is 10 minutes, and the 3 is 15 minutes.

Name _____ Date _____

# Time to Five Minutes

ANSWER KEY PRACTICE ★

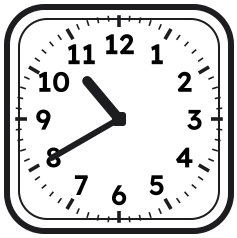
Write the time under each clock that already has hands. On the last row, draw the hands to match each time.

1. 

1:05

2. 

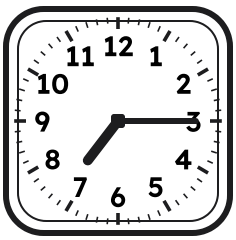
3:25

3. 

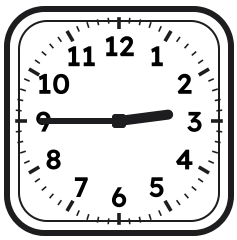
10:40

4. 

12:50

5. 

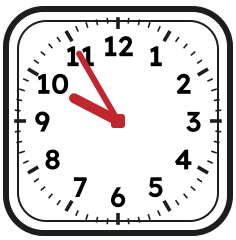
7:15

6. 

2:45

7. 

4:10

8. 

9:55

Name _____ Date _____

# Time to the Minute and Elapsed Time

ANSWER KEY

PRACTICE ★★

Write the time under each clock. Then find how many minutes pass from the start time to the end time.

**1.**



2:17

**2.**



6:43

**3.**



11:08

**4.**



4:52

**How many minutes pass?**

| Start | End | Minutes that pass |
|---|---|---|
| 3:10 | 3:25 | 15 |
| 8:05 | 8:40 | 35 |
| 1:20 | 2:05 | 45 |
| 9:48 | 10:10 | 22 |

**5.** Recess starts at 10:15 and lasts 20 minutes. What time does recess end?

SHOW YOUR WORK

10:15 plus 20 minutes is 10:35

Answer: 10:35

**6.** A movie starts at 2:40 and ends at 3:15. How many minutes long is the movie?

SHOW YOUR WORK

From 2:40 to 3:00 is 20 minutes, and from 3:00 to 3:15 is 15 minutes, so 35 minutes

Answer: 35 minutes

Name _____ Date _____

# Count Mixed Coins

ANSWER KEY PRACTICE ★

Count the coins in each group, starting with the coins that are worth the most. Write the total on the line.

1. 25¢ QUARTER | 25¢ QUARTER | 10¢ DIME — Total: 60¢

2. 25¢ QUARTER | 10¢ DIME | 10¢ DIME | 5¢ NICKEL — Total: 50¢

3. 10¢ DIME | 10¢ DIME | 5¢ NICKEL | 5¢ NICKEL | 1¢ PENNY | 1¢ PENNY — Total: 32¢

4. 25¢ QUARTER | 5¢ NICKEL | 1¢ PENNY | 1¢ PENNY | 1¢ PENNY — Total: 33¢

5. 10¢ DIME | 10¢ DIME | 10¢ DIME | 10¢ DIME | 5¢ NICKEL — Total: 45¢

6. 25¢ QUARTER | 25¢ QUARTER | 25¢ QUARTER | 5¢ NICKEL — Total: 80¢

Name _____ Date _____

# Sort the Totals

ANSWER KEY | CUT AND PASTE

Cut out the twelve cards at the bottom of the page. Glue each card in the column where its amount belongs.

| Less than 40¢ | From 40¢ to 75¢ | Greater than 75¢ |
|---|---|---|
| 3 dimes | 2 quarters | 3 quarters + 1 dime |
| 1 quarter + 1 nickel | 1 quarter + 3 dimes | 4 quarters |
| 2 dimes + 1 nickel | 6 dimes | 3 quarters + 2 dimes |
| 1 quarter + 1 dime | 2 quarters + 1 dime | 1 dollar |

1. Look at the cards whose totals are greater than 75¢. What do you notice about those groups of coins?

Those groups have three or more quarters, or they mix quarters with dimes.

✂

| | | | |
|---|---|---|---|
| 1 dollar | 2 quarters + 1 dime | 6 dimes | 3 quarters + 2 dimes |
| 1 quarter + 1 nickel | 3 dimes | 2 quarters | 1 quarter + 3 dimes |
| 1 quarter + 1 dime | 2 dimes + 1 nickel | 3 quarters + 1 dime | 4 quarters |

Name _____ Date _____

# Match the Time to the Event

ANSWER KEY MATCH

Read each event on the left and find the time on the right that fits it. Write the letter of the time on the line.

| EVENT | | TIME |
|---|---|---|
| **1.** The school day starts | G | **A** 8:30 at night |
| **2.** Morning recess begins | E | **B** 3:05 in the afternoon |
| **3.** Lunch begins | F | **C** 4:15 in the afternoon |
| **4.** Quiet reading starts after lunch | D | **D** 12:40 in the afternoon |
| **5.** Art class begins | H | **E** 10:15 in the morning |
| **6.** The last bell rings | B | **F** 12:00 noon |
| **7.** A soccer game starts after school | C | **G** 8:00 in the morning |
| **8.** Bedtime on a school night | A | **H** 1:30 in the afternoon |

**9.** Write one thing you do in the morning and the time you usually do it.

**Answers will vary. Look for a morning activity and a reasonable time.**

Name _____ Date _____

# Money Riddle

ANSWER KEY RIDDLE

Find each total in cents and look it up in the code table. Write the letter for that total on the line with the same number to answer the riddle.

**What kind of money do monsters use?**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| O | N | E | | C | E | N | T |
| 1 | 2 | 3 | | 4 | 5 | 6 | 7 |

CODE TABLE

| 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
|---|---|---|---|---|---|---|---|
| E | C | T | Y | N | O | A | R |

1. 1 quarter + 1 dime = 35 ¢
2. 3 dimes = 30 ¢
3. 2 nickels
5. 1 dime = 10 ¢
6. 2 dimes + 2 nickels = 30 ¢
7. 4 nickels

Name _____ Date _____

# Time and Money Word Problems

ANSWER KEY APPLY

Read each problem twice and show your work in the box. Write your answer with the label on the line.

**1.** A bus leaves at 8:20 and arrives at 8:55. How many minutes does the ride take?

SHOW YOUR WORK

From 8:20 to 8:55 is 35 minutes

Answer: 35 minutes

**2.** Nia has 2 quarters, 1 dime, and 1 nickel. How much money does she have?

SHOW YOUR WORK

50 + 10 + 5 = 65

Answer: 65¢

**3.** Theo buys a pencil that costs 35¢ and pays with 2 quarters. How much change should he get?

SHOW YOUR WORK

50 – 35 = 15

Answer: 15¢

**4.** A lesson starts at 1:10 and lasts 40 minutes. Then the class takes a 10 minute break. What time does the break end?

SHOW YOUR WORK

1:10 plus 40 minutes is 1:50, and 1:50 plus 10 minutes is 2:00

Answer: 2:00

Name _____ Date _____

# Find the Mistake

ANSWER KEY | ERROR ANALYSIS ★★

Each box shows work from a student who made a mistake. Read the work carefully, explain what went wrong, and then answer the question below it.

Elena's work

**The long hand points to the 4.**
**Each number is 5 minutes, so 4 means 4 minutes.**
**I think the clock says 2:04.**

1. What mistake did Elena make? Explain it in a complete sentence.

**Elena counted the 4 as 4 minutes, but each number on the clock is worth 5 minutes, so the 4 means 20 minutes. The clock says 2:20.**

2. The long hand points to the 8. How many minutes is that, and how do you know?

YOUR WORK

**40 minutes, because 8 × 5 = 40**

Marcus's work

**I have 1 quarter, 2 dimes, and 1 nickel.**
**25 + 10 + 5 = 40.**
**So I have 40¢.**

3. What mistake did Marcus make? Explain it in a complete sentence.

**Marcus added only one dime, but he has two dimes. 25 + 10 + 10 + 5 = 50, so he has 50¢.**

4. Count 1 quarter, 3 dimes, and 2 nickels. Write the total.

YOUR WORK

**25 + 30 + 10 = 65¢**

Name _____ Date _____

# Explain Your Strategy

ANSWER KEY | WRITE ABOUT MATH

Answer each question in complete sentences. Use the sentence starters if they help.

1. You have 3 dimes, 1 nickel, and 4 pennies. How do you find the total, and what is it?
   First I add the dimes, which are _____. Then I add _____, so the total is _____.

   **First I add the dimes, which are 30¢. Then I add a nickel and 4 pennies, so 30 + 5 + 4 = 39¢.**

DRAW THE COINS OR A NUMBER LINE THAT SHOWS YOUR WORK

2. A class starts at 9:20 and ends at 10:05. How do you find how many minutes the class lasts?

   **From 9:20 to 10:00 is 40 minutes, and from 10:00 to 10:05 is 5 minutes, so the class lasts 45 minutes.**

Name _____ Date _____

# Mixed Review

ANSWER KEY REVIEW

Solve each problem and check your work when you finish. Use any strategy from this packet that helps you.

**1.**



3:25

**2.**



8:40

**3.**



5:15

**4.**



12:05

**5.**

| 25¢ QUARTER | 10¢ DIME | 10¢ DIME | 5¢ NICKEL |
|---|---|---|---|

Total: 50¢

**6.**

| 25¢ QUARTER | 25¢ QUARTER | 5¢ NICKEL | 1¢ PENNY | 1¢ PENNY |
|---|---|---|---|---|

Total: 57¢

**7.** A walk starts at 2:10 and ends at 2:45. How many minutes does the walk take?

SHOW YOUR WORK

2:45 – 2:10 = 35 minutes

Answer: 35 minutes

**8.** Kim buys a sticker that costs 40¢ and pays with 2 quarters. How much change should she get?

SHOW YOUR WORK

50 – 40 = 10

Answer: 10¢

Name _____ Date _____

# Exit Tickets

ANSWER KEY CHECK

Your teacher will cut this page on the dotted line so each student gets one ticket. Solve all four problems on your own and show your work.

## Time and Money Exit Ticket

Name _____

**1.**



4:20

**2.**



9:45

**3.** You have 1 quarter and 2 dimes. How much money do you have?

SHOW YOUR WORK

25 + 20 = 45

Answer: 45¢


## Time and Money Exit Ticket

Name _____

**1.**



4:20

**2.**



9:45

**3.** You have 1 quarter and 2 dimes. How much money do you have?

SHOW YOUR WORK

25 + 20 = 45

Answer: 45¢

Name _____ Date _____

# How Did I Do?

ANSWER KEY SELF-CHECK

Read each skill and put a check in the box that fits you best. Then answer the two questions at the bottom of the page.

| Skill | I can do this on my own. | I can do this with a little help. | I am still learning this. |
|---|---|---|---|
| I can read a clock to the nearest five minutes. | ☐ | ☐ | ☐ |
| I can read a clock to the nearest minute. | ☐ | ☐ | ☐ |
| I can find how many minutes pass between two times. | ☐ | ☐ | ☐ |
| I can count mixed coins and write the total. | ☐ | ☐ | ☐ |
| I can find the change after a purchase. | ☐ | ☐ | ☐ |
| I can solve word problems about time or money. | ☐ | ☐ | ☐ |

1. Which skill do you want to practice more, and why?

**Answers will vary. Look for a specific skill and a reason.**

2. Which strategy from this packet helps you the most? Show how it works with one problem.

**Answers will vary. Look for counting on by fives, starting with the largest coin, or hopping on a number line.**