

Time and Money

Name: _____

Prerequisite: Solve Problems About Money and Time

Study the example showing how to solve a word problem about money. Then solve problems 1–5.

Example

Ronan has 2 dollar bills, 2 quarters, 3 dimes, 2 nickels, and 2 pennies in his wallet. How much money does Ronan have in his wallet?



\$2.00

+

Skip count to find the value of the coins.



Or use multiplication and addition to find the value of the coins.

$$50¢ + 30¢ + 10¢ + 2¢ = 92¢$$

92¢

$$\begin{aligned} 2 \text{ quarters: } & 2 \times 25¢ = 50¢ \\ 3 \text{ dimes: } & 3 \times 10¢ = 30¢ \\ 2 \text{ nickels: } & 2 \times 5¢ = 10¢ \\ 2 \text{ pennies: } & 2 \times 1¢ = 2¢ \end{aligned}$$

$$\$2.00 + 92¢$$

Ronan has \$2.92 in his wallet.

- 1** Fill in the blanks below with numbers to show different ways to make 50 cents with quarters, dimes, and nickels.



$$\underline{\hspace{1cm}}¢ + \underline{\hspace{1cm}}¢ = 50¢ \quad \underline{\hspace{1cm}} \times 10¢ = 50¢$$



$$\underline{\hspace{1cm}} \times 5¢ = 50¢$$

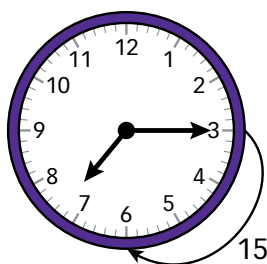
$$50¢ = \underline{\hspace{1cm}} \text{ quarters} = \underline{\hspace{1cm}} \text{ dimes} = \underline{\hspace{1cm}} \text{ nickels}$$

- 2** Look at problem 1. Use words and numbers to explain a different way to make 50 cents with a quarter, dimes, and nickels.

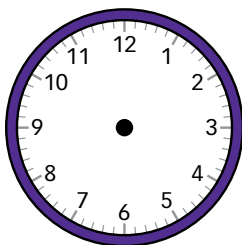
Solve.

- 3 Daphne woke up at 7:15. It took her 15 minutes to dress and brush her teeth. She ate breakfast for 20 minutes. Then it took 5 minutes for her to walk to the bus stop and wait for the bus to arrive. What time did the bus arrive?

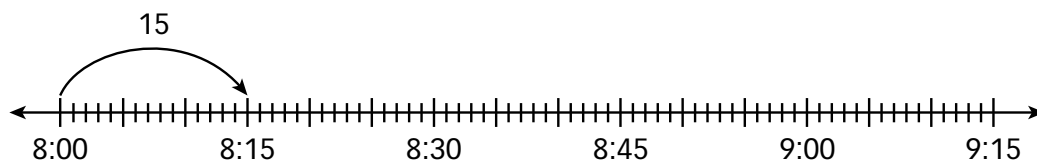
The clock below shows the start time at 7:15 when Daphne woke up. Draw and label arrows on the clock to show how to find the end time when the bus arrived.



Draw hands on the clock below to show the end time when the bus arrived.



- 4 Evan got to the practice field at 8:00. He stretched for 15 minutes. He did sprints for 30 minutes. Then he did practice drills for 25 minutes. What time did Evan finish practice drills? Complete and label the jumps on the number line to find the end time.

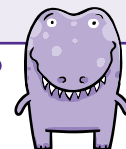


Evan finished practice drills at _____.

- 5 Kurt got home at 4:00. He did homework for 25 minutes and played outside for 20 minutes. Then he read a book for 15 minutes before dinner. What time was dinner?

Show your work.

There are 60 minutes in 1 hour.



Solution: _____

Solve Problems About Time

Study the example showing how to solve a problem about time. Then solve problems 1–6.

Example

Amy had 1 hour to do activities. She talked on the phone for 5 minutes. She rode her bike for 15 minutes. She played a game with her brother for 25 minutes. How much time did Amy have left to spend painting a picture?

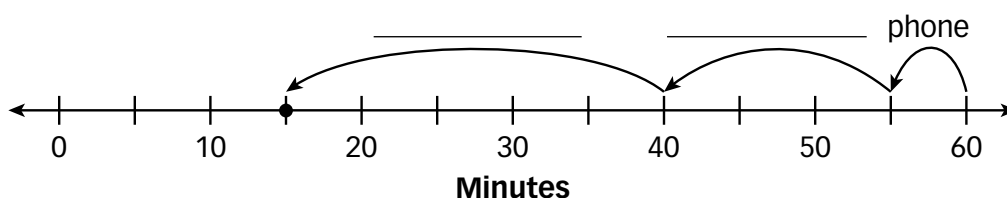
Amy had 60 minutes to do activities. $1 \text{ hour} = 60 \text{ minutes}$

Add the minutes for the known activities. $5 + 15 + 25 = 45 \text{ minutes}$

Write an equation to find how much time Amy had left to paint a picture. $45 + P = 60$ or $P = 60 - 45$
 $P = 15$ $P = 15$

Amy had 15 minutes left to paint a picture.

- 1** Complete the labels on the number line to represent the example problem.



- 2** Look at the number line in problem 1. What does the dot at 15 represent?

- 3** Milo visited an amusement park for 3 hours. He rode rides for 50 minutes, played carnival games for 40 minutes, and ate food for 30 minutes. He spent the rest of the time waiting in lines. How much time did Milo spend waiting in lines? Write and solve an equation to find the answer.

3 hours = _____ minutes

Known activities = _____ + _____ + _____ = _____ minutes

Equation: _____

Milo spent _____ minutes waiting in lines.

Solve.

- 4** Tell whether each amount of time is equivalent to 2 hours and 10 minutes.

- a. 210 minutes ☐ Yes ☐ No
- b. 130 minutes ☐ Yes ☐ No
- c. 1 hour, 70 minutes ☐ Yes ☐ No

- 5** One of the fastest times for a 1,500-meter race is 3 minutes and 34 seconds. How many seconds is this time?

Show your work.

Solution: _____

- 6** Bennett spent 4 hours at school today. He attended three 70-minute classes. There is a 5-minute break between classes. Then he ate lunch before going home. How long did Bennett spend eating lunch?

Show your work.

Solution: _____

Solve Problems About Money

Study the example showing how to solve a problem about money. Then solve problems 1–7.

Example

Rita bought milk for \$0.50, a sandwich for \$2.50, and a fruit salad for \$1.25. She paid for her lunch with a \$5.00 bill. How much change did Rita get?

$$\begin{aligned} \$1.00 &= 100 \text{ cents} \\ \$5.00 &= 500 \text{ cents} \end{aligned}$$

Rita spent: $50 + 250 + 125 = 425$ cents

$500 \text{ cents} - 425 \text{ cents} = 75 \text{ cents}$

Rita got 75 cents, or \$0.75, in change.

- 1** The picture below shows that \$5.00 is the same as \$3.00 in bills plus 8 quarters. Cross out the bills and coins to show the amount that Rita spent on lunch in the example above.

$$\begin{aligned} 1 \text{ dollar} &= 4 \text{ quarters} \\ 1 \text{ quarter} &= 25 \text{ cents} \end{aligned}$$



- 2** How can you find the change Rita gets by looking at the picture above? Explain. _____
- _____
- _____

- 3** Josh bought 4 movie tickets and 2 large popcorns. Each movie ticket is \$8. Each popcorn is \$5. How much money did Josh spend?

Tickets: _____ Popcorn: _____

Tickets and popcorn: _____

Josh spent _____.

Solve.

- 4** Mandy has a total of \$2.00 in change in her purse. Complete each set of coins below to show amounts equivalent to \$2.00.

- a. 4 quarters, 5 dimes, _____ nickels
- b. 10 pennies, _____ dimes, 3 quarters, 5 nickels
- c. 2 quarters, 12 dimes, 3 nickels, _____ pennies
- d. _____ quarters, 4 dimes, 6 nickels, 5 pennies

- 5** A pound of apples costs \$1.30. Sawyer bought $2\frac{1}{2}$ pounds of apples. How much did Sawyer pay?

Show your work.

Solution: _____

- 6** Brie earns \$3,000 a month. Every month, she spends \$1,400 on rent and bills, \$700 on groceries, \$200 on a car payment, and \$100 on gas. She saves the rest. How much money does Brie save?

Show your work.

Solution: _____

- 7** Regular bananas cost \$0.20 each at the supermarket. Organic bananas cost \$0.30 each. If you have \$3.00, how many more regular bananas than organic bananas can you buy?

Show your work.

Solution: _____

Time and Money**Solve the problems.**

- 1** How many days are in 1 year and 5 weeks?

A 372 days
B 378 days
C 400 days
D 1,825 days

There are 365 days in a year. There are 7 days in a week.



- 2** Rowan bought 2 comic books for \$2.50 each, a fiction book for \$7, and a poster for \$1.25 at the book fair. Rowan paid with a \$20.00 bill. How much change did he get?

A \$6.75 **C** \$13.25
B \$12.75 **D** \$17.75

Courtney chose **C** as the correct answer. How did she get that answer?

What operation do you use to represent the cost of the 2 comic books?



- 3** How many minutes are there in one day?

Show your work.

There are 24 hours in one day.



Solution: _____

Solve.

- 4 A private music lesson at Parker Music costs \$40 for 1 hour. A private music lesson at Joelle Music costs \$25 for 30 minutes. How much more does a 1-hour private lesson cost at Joelle Music than at Parker Music?

Show your work.

What is the cost for 60 minutes of lessons at each store?

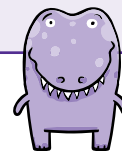


Solution: _____

- 5 Susan bought 4 boxes of granola bars and 2 cartons of milk. Each box of granola bars cost \$2.50 and each carton of milk cost \$2.75, including tax. Susan gave the clerk a \$20.00 bill. What did she get in change? List two different ways Susan could have received change.

Show your work.

What coins are equal in value to 1 dollar?



Solution: bills: _____ coins: _____

bills: _____ coins: _____