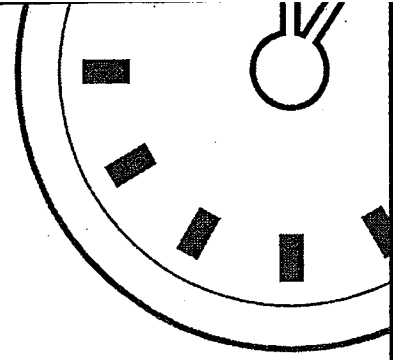
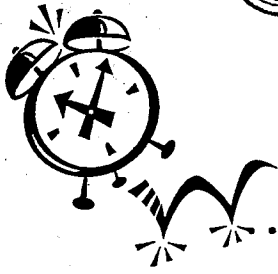


Ms. Dowling

Algebra 1B-Extended Home Instruction Packet

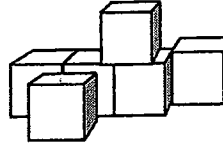
| | |
|--|--|
| <p><u>Week 4:</u></p> <p>Lesson 1: SWBAT review basic math facts and processes that can be applied to future math classes.</p> | <p>1. Complete "Math Minutes 61-70". Show any work necessary to complete the problems. This packet will be collected when we return to school.</p> |
| <p>Lesson 2: SWBAT review basic math facts and processes that can be applied to future math classes.</p> | <p>1. Complete "Math Minutes 71-80". Show any work necessary to complete the problems. This packet will be collected when we return to school.</p> |



MINUTE 61

1. Round each number to the underlined position.
 $\underline{1}28 =$ $\underline{3},158 =$ $48\underline{8}.37 =$

2. How many cubes are in this shape? _____



3. The numbers in the y column are _____ times bigger than those in the x column.

| x | y |
|-----|-----|
| 0.2 | 0.8 |
| 0.3 | 1.2 |
| 0.5 | 2 |
| 0.7 | 2.8 |

4. What number solves this equation? $\square \times (3 + 8) = 55$

5. Fifty tickets were sold for the lottery. Jackson bought five tickets. What are the chances he will win? _____

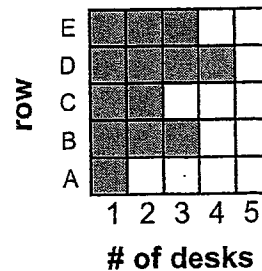
6. Fill in the box with the next number in the sequence: $1,884$
 $2,384$
 $2,884$

7. $2(\sqrt{25} \times \sqrt{25}) =$

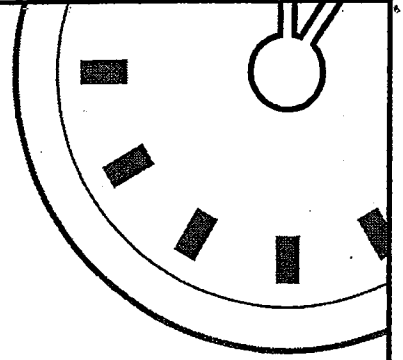
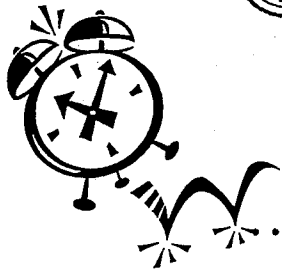
For Problems 8–9, use the bar graph to the right.

8. According to the graph, how many desks were in row A? _____

9. Which two rows had the same number of desks?
 _____ and _____



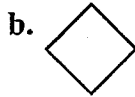
10. What is the remainder after each number is divided?
 $9 \overline{)76}$ _____ $6 \overline{)59}$ _____ $4 \overline{)89}$ _____



MINUTE 62

1. A good runner might be able to run _____ miles in one hour.
a. 20 b. 30 c. 10

2. Which of these shapes is a rhombus?



3. Use + or \times to complete the problem. $\frac{1}{6} \square \frac{4}{6} = \frac{5}{6}$.

4. $2 \cdot 2 \cdot 2 \cdot 3^2 = 36$ Circle: True or False

5. If you add 12 to the quotient of 15 divided by 3, you get _____.

6. The cards to the right were placed facedown on a table and then mixed up. Which letter would be most likely to appear when a card is flipped over? _____

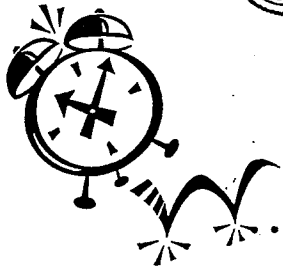
| | | | |
|---|---|---|---|
| G | R | Q | A |
| G | C | G | S |
| G | T | B | G |
| N | G | L | L |
| P | N | Q | G |

7. Write as an improper fraction: $8\frac{3}{4} =$

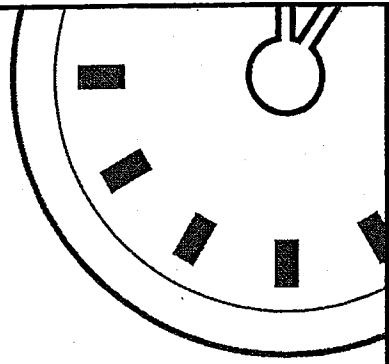
8. Write in mixed fraction form: $\frac{9}{5} =$

9. $0.327 \times 100 =$ $0.327 \times 10 =$ $0.327 \times 0.1 =$

10. 10% of 46 = _____ 10% of 140 = _____

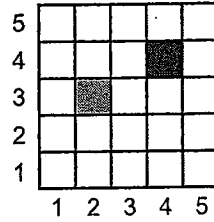


MINUTE 63



1. Which numbers can both 6 and 12 be evenly divided by? Circle: 2 3 4 6 8 12

2. If ■ is at (2,3), then ■ is at _____.



3. If $2^3 = 2 \cdot 2 \cdot 2 = 8$, then $3^3 =$ _____.

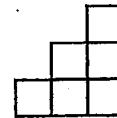
4. Below are some perfect square root numbers. What would the next perfect square root be?

$\sqrt{4}$ $\sqrt{9}$ $\sqrt{16}$ $\sqrt{25}$ _____

5. If $3x + 5 = 20$, which of these numbers could x equal?
 a. 10 b. 15 c. 5 d. 20

6. The square root of what number is 9? _____

7. What is the perimeter of the shape to the right? _____



For Problems 8–9, use the frequency chart to the right.

| Lawns Doug Mowed | |
|------------------|-------|
| Mowing Day | Tally |
| M | |
| T | |
| W | |
| TH | |
| F | |
| S | |
| SUN | |

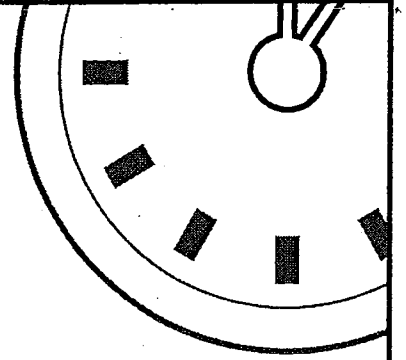
8. On which day of the week did Doug mow the most lawns? _____

9. On _____ and _____, Doug mowed the same number of lawns.

For Problem 10, use the rules of negatives to help you simplify each expression.

10. $(-6)(4) =$
 $(-6)(-5) =$
 $(7)(-8) =$

| |
|--------------------------------|
| Negative x Positive = Negative |
| Negative x Negative = Positive |
| Negative + Negative = Negative |
| Negative ÷ Negative = Positive |
| Negative ÷ Positive = Negative |

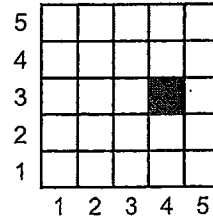


MINUTE 64

1. Which activity is more likely to occur?
 a. getting a hole in one
 b. bowling a 300 game

| Activity | Odds |
|--------------------|-------------|
| hole in one (golf) | 33,000 to 1 |
| bowling a 300 game | 11,500 to 1 |

2. What are the coordinates of the ■ ? _____



3. $5\frac{1}{3} + 6\frac{1}{3} =$

4. Fill in the missing factors of 24.

| | | | | | | | |
|---|---|---|--|---|---|--|----|
| 1 | 2 | 3 | | 6 | 8 | | 24 |
|---|---|---|--|---|---|--|----|

5. Complete the pattern. 1, 3, 7, 15, _____

6. $3 \times (\square + 4) = 18$

7. Which one of the following is NOT equal to the others?

30% 0.3 $\frac{3}{10}$ 0.03

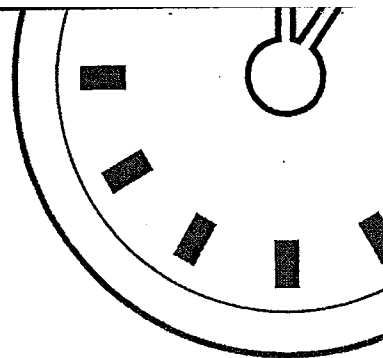
8. $10^3 =$

9. $(-9) \div (-3) =$ $(-15) \div (3) =$ $(30) \div (-10) =$

For Problem 10, use the rules of negatives to help you simplify each expression.

10. $(-8)(-8) =$
 $(9)(-5) =$
 $(-7)(9) =$

| |
|---------------------------------------|
| Negative \times Positive = Negative |
| Negative \times Negative = Positive |
| Negative $+$ Negative = Negative |
| Negative \div Negative = Positive |
| Negative \div Positive = Negative |

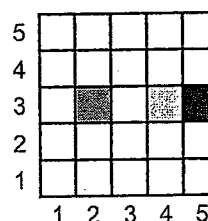


MINUTE 65

1. Match each word with its definition:
- | | |
|-----------|---|
| Prime | a. numbers that evenly divide another number |
| Factors | b. whole numbers that are the products of other numbers |
| Multiples | c. a number that can only be divided by 1 and itself |

For Problems 2–3, use the graph to the right.

2. What is the distance from one shaded box to the other? _____



3. To get from the gray box to the black box, you would move _____.
- a. north b. south c. east d. west

4. $10 - (6 + 2) =$

5. If $\frac{4}{9} = \frac{x}{36}$, then $x =$ _____.

6. If $3 + 6 + 2 + 8 + 3 + n = 27$, then $n =$ _____.

For Problems 7–9, circle the greatest amount.

7. 5^3 $\sqrt{25}$ 10^2

8. 3 weeks 20 days 1 month

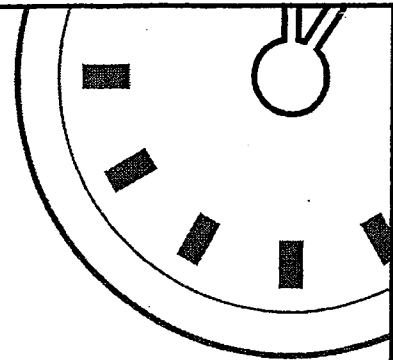
9. $(-5)(-5)$ $4 \cdot 6$ $\frac{100}{5}$

For Problem 10, use the rules of negatives to help you simplify each expression.

10. $(-8) + (-5) =$

$4 - (-5) =$

| |
|--------------------------------|
| Negative + Negative = Negative |
| Positive - Negative = Positive |



MINUTE 66

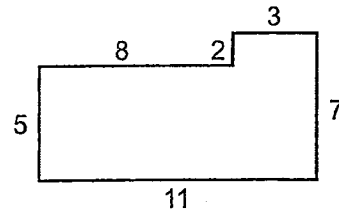
1. Match each kind of fraction with the correct example.

Improper _____ a. $\frac{5}{4}, \frac{4}{5}$

Mixed _____ b. $4\frac{1}{2}$

Reciprocal _____ c. $\frac{9}{5}$

2. What is the perimeter of the shape? _____



3. $6\frac{1}{4} - 5\frac{3}{4} =$

4. If $|-6| = 6$, then $|-100| =$ _____.

5. Which numbers can both 8 and 24 be evenly divided by?

Circle: 1 2 3 4 6 8 12

6. Complete the sequence: $\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2},$ _____.

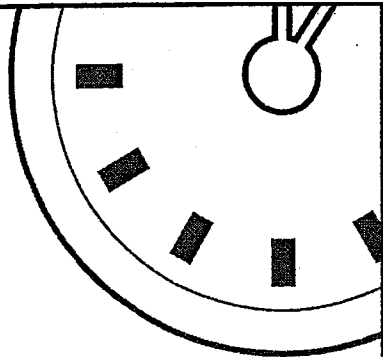
For Problems 7–10, match each mathematical expression with its correct description.

7. $a + b$ a. b is subtracted from a

8. $a - b$ b. b is added to a

9. ab c. b is multiplied by a

10. $\frac{a}{b}$ d. a is divided by b



MINUTE 67

1. What is the best estimate of how much of this rectangle is shaded?

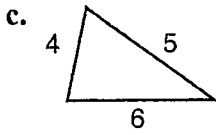
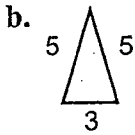
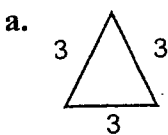
a. $\frac{1}{2}$

b. $\frac{1}{3}$

c. $\frac{1}{10}$



2. Which of the triangles below is equilateral?



3. $2\frac{2}{7} = \frac{16}{7}$ Circle: True or False

4. If $\frac{3}{5} = \frac{x}{40}$, then $x =$ _____.

5. $48 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot \square$

6. Write as a mixed fraction: $3.75 =$

7. All of the following equal 10 except:

$\frac{10^3}{10^2}$

$\sqrt{100}$

5^2

$|-10|$

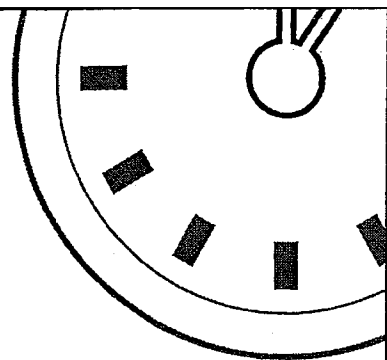
8. Put these numbers in order from least to greatest: -5, 7, -2, 8, 0. _____

9. $(-3) + (-8) =$ $(-3) + (8) =$ $(-3) - (8) =$

10. $(-12)(-4) =$ $(-12)(4) =$ $\frac{-12}{4} =$



MINUTE 68

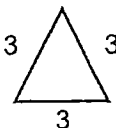
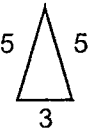
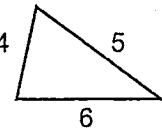


1. What is the best estimate of the part of the rectangle that is shaded?

- a. $\frac{1}{2}$ b. $\frac{1}{8}$ c. $\frac{1}{3}$ d. $\frac{1}{4}$



2. Which of the triangles below is isosceles?

- a.  b.  c. 

3. $0.\bar{3} =$ _____ a. $\frac{1}{2}$ b. $\frac{1}{8}$ c. $\frac{1}{3}$ d. $\frac{1}{4}$

4. $\sqrt{5^2 - 3^2} =$

5. $-12 \div 2 =$ $-12 \div 2 \times (-3) =$

6. $\frac{1}{4} \times \square = 5$

7. Complete the empty boxes.

| |
|----|
| 4 |
| 6 |
| 8 |
| 16 |
| 30 |

 $\times \frac{1}{2}$

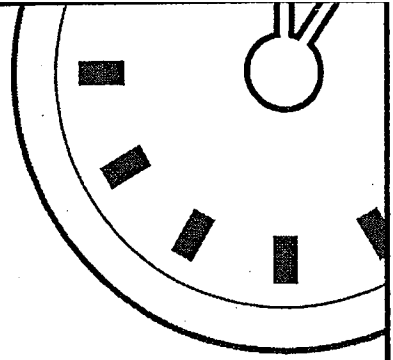
| |
|---|
| 2 |
| 3 |
| 4 |
| |
| |

For Problems 8–10, evaluate if $a = 6$, $b = -2$, and $c = -4$.

8. $a + b + c =$

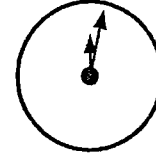
9. $abc =$

10. $a + \frac{b}{c} =$

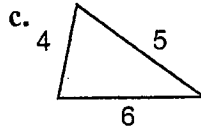
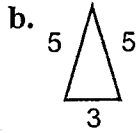
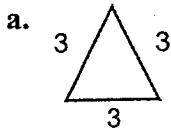


MINUTE 69

1. Which of these is the best estimate of the time on this clock?
 a. noon b. 9:00 c. 11:00 d. 1:00



2. Which of the triangles below is scalene?



3. Put the following numbers into the correct box below: 3, 14, 2, 4, 21, 6, 8, 28

| |
|-----------------------|
| Multiples of 7 |
| |

| |
|----------------------|
| Factors of 24 |
| |

For Problems 4–6, circle *True* or *False*

4. $(20 \div 2) \cdot 3 = 30$ True or False

5. $2(5 + 4) - 6 = 5$ True or False

6. $4 + 7 \times 3 = 25$ True or False

7. Put the numbers $\{-6, 10, 0, -5, 4\}$ in order from least to greatest. _____

8. Complete the missing numbers in the table.

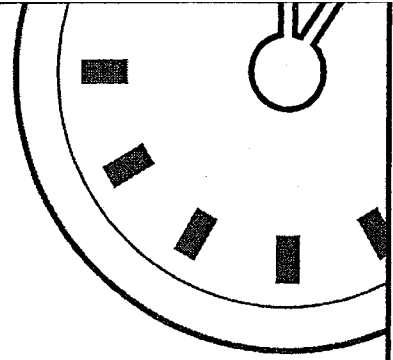
| Sum | Product | Numbers |
|-----|---------|-------------|
| 10 | 16 | 2 and 8 |
| 8 | 12 | ___ and ___ |

9. $-6 + 8 + 4 - 3 =$ $6 - 8 + 4 - 3 =$

10.
$$\begin{array}{r} 426 \\ \times (-3) \\ \hline \end{array}$$
 $-3 \overline{)513} =$

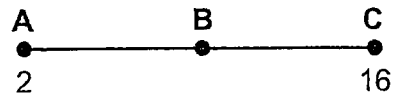


MINUTE 70



1. $40 \cdot \boxed{\quad} = 10$

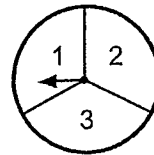
2. If point B is halfway between points A and C, what number does it represent? _____



3. $(3 + 0.3 + 0.7)^2 =$

4. If $4.38 = 4 + \frac{a}{10} + \frac{8}{b}$, then $a =$ _____ and $b =$ _____.

5. If you spin the spinner to the right, what are the chances it will land on 1 or 3? _____



For Problems 6–9, solve each equation for a .

6. If $a + 8 = 12$, then $a =$ _____.

7. If $a - 2 = -12$, then $a =$ _____.

8. If $-6a = -48$, then $a =$ _____.

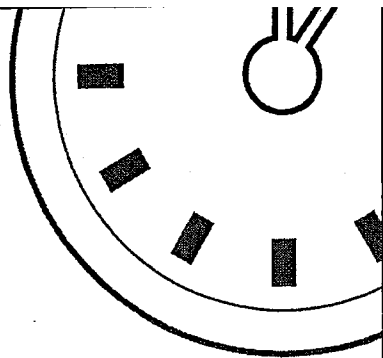
9. If $\frac{a}{(-3)} = 10$, then $a =$ _____.

10. $\frac{1}{4} \times \frac{2}{4} =$

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



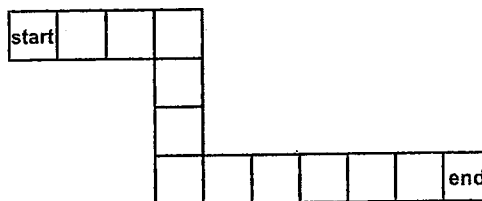
MINUTE 71



1. A ton is 2,000 pounds. It might take about _____ sixth graders to weigh a ton.
 a. 25 b. 100 c. 1,000

2. Match each triangle with its correct definition.
 Equilateral a. a triangle with two equal sides
 Scalene b. a triangle with three equal sides
 Isosceles c. a triangle with no equal sides

3. If Brandon can hop three squares at a time, how many hops will it take him to get to the end of the walkway? _____

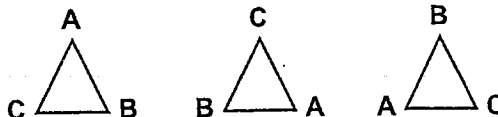


4. Put the following numbers into the correct box below: 3, 10, 2, 20, 6, 25

| |
|----------------|
| Multiples of 5 |
|----------------|

| |
|---------------|
| Factors of 18 |
|---------------|

5. If this pattern continues, what letter would be at the top of the next shape in the pattern? _____



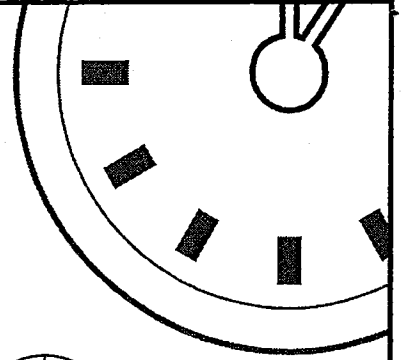
6. Which of these is the same as 7^5 ?
 a. $7 + 7 + 7 + 7 + 7$ b. $5 + 5 + 5 + 5 + 5 + 5 + 5$
 c. $5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5$ d. $7 \cdot 7 \cdot 7 \cdot 7 \cdot 7$

7. Which of these is the same as $0.5888888\dots$? a. $0.\overline{58}$ b. $\sqrt{0.58}$ c. $0.5\overline{8}$ d. $|0.58|$

8. Reduce: $\frac{5}{15} =$ $\frac{10}{24} =$ $\frac{6}{30} =$

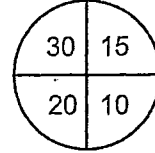
9. $(-8)(-7) =$ $(-8)(5) =$ $(8)(-4) =$

10. $-5 + (-7) =$ $(-5) - 7 =$ $(-5) - (-7) =$

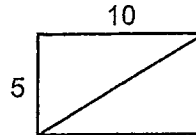


MINUTE 72

1. Marty got a score of 45 with two throws on this dart board. Which two categories did he hit? _____



2. Find the area of one of the triangles. _____



3. Complete the chart.

| Fraction | Decimal | Percent |
|----------|---------|---------|
| | | 5% |

4. These letters are put on cards and then one card is drawn at random. What is the probability that a Y is drawn? _____

T T Y Y Y R S S

5. Which of these numbers would solve both of these equations? $2x + 7 = 13$ and $6x - 5 = 13$
 a. 3 b. 10 c. 2

6. All of the following equal 5 except: $|-5|$ $\sqrt{25}$ $\frac{5^4}{5^3}$ 5^2

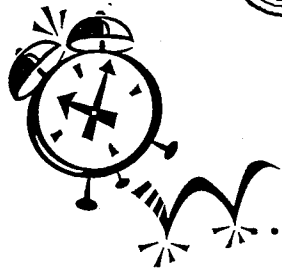
7. If $\frac{5}{8} \times a = 1$, then $a =$ _____.

8. $\frac{2 \cdot 3 \cdot 3 \cdot 5 \cdot 7}{3 \cdot 5 \cdot 7} =$

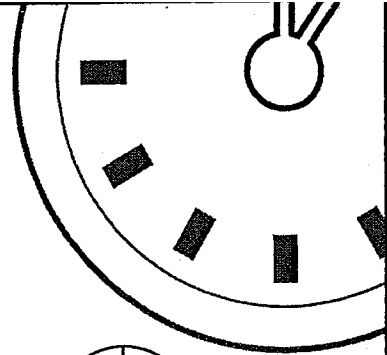
(Hint: Cross out the common factors in the top and the bottom.)

9. Change to an improper fraction: $4\frac{1}{5} =$ $5\frac{3}{5} =$ $1\frac{9}{10} =$

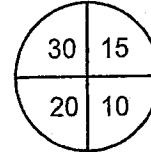
10. $\left(\frac{1}{3}\right)\left(\frac{2}{3}\right) =$ $-\left(\frac{2}{5}\right)\left(\frac{4}{7}\right) =$



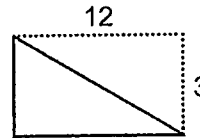
MINUTE 73



1. Mike claims he got a score of 55 with two throws on this dart board. Is that possible? Circle: Yes or No



2. Find the area of either right triangle. _____



For Problems 3–4, use the game board to the right.

3. A coin is tossed on the game board. Would it land on a Red or a Blue square more often? _____

4. What is the probability the coin would land on Red?

| | | | |
|------|-----|------|------|
| Red | Red | Blue | Blue |
| Blue | Red | Blue | Blue |
| Blue | Red | Red | Blue |
| Blue | Red | Red | Blue |

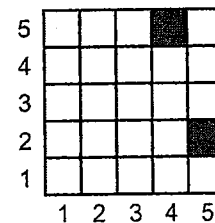
5. Fill in the missing factors of 28.

| | | | | | |
|---|---|--|---|--|----|
| 1 | 2 | | 7 | | 28 |
|---|---|--|---|--|----|

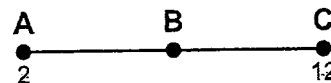
6. $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{4 \cdot 3 \cdot 2 \cdot 1} =$ _____

7. If $\frac{7}{2} \times q = 1$, then $q =$ _____.

8. One of the black squares has the coordinates of (4,5). What coordinates does the other square have? _____



9. If point B is halfway between points A and C, what number does it represent? _____



10. Circle the problems below that have a whole number answer.

$400 \div 5$

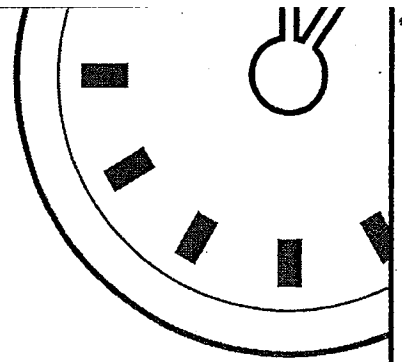
$\frac{300}{10}$

$|-16|$

$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

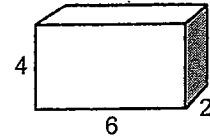


MINUTE 74



1. If $\frac{5}{8} \div \frac{2}{3} = \frac{5}{8} \cdot \frac{3}{2}$, then $\frac{4}{8} \div \frac{2}{5} = \frac{4}{7} \cdot \boxed{\quad}$

2. To find the volume of a box, multiply all three dimensions. What is the volume of this box? _____



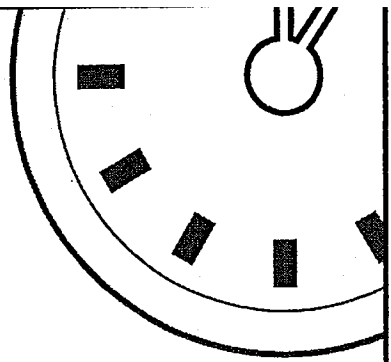
3. What is the common denominator for $\frac{1}{4} + \frac{1}{5}$? _____

For Problems 4–7, match each clue with its correct answer.

- | | |
|-------------------------|-------|
| 4. the square root of 9 | a. 20 |
| 5. a 9 squared | b. 3 |
| 6. a factor of 10 | c. 5 |
| 7. a multiple of 10 | d. 81 |

For Problems 8–10, evaluate if $a = -5$, $b = -4$, and $c = -3$.

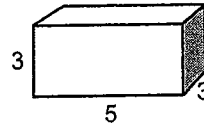
8. $a + b + c =$
9. $abc =$
10. $a - c =$



MINUTE 75

1. How many legs do each of the following have?
 4 chairs have _____ legs
 5 ducks have _____ legs

2. What is the volume of this box? _____



3. $50\% + 10\% + 0.05 =$ _____

4. 20% of 30 is _____.

For Problems 5–7, solve for x .

5. If $x - 25 = 96$, then $x =$ _____.

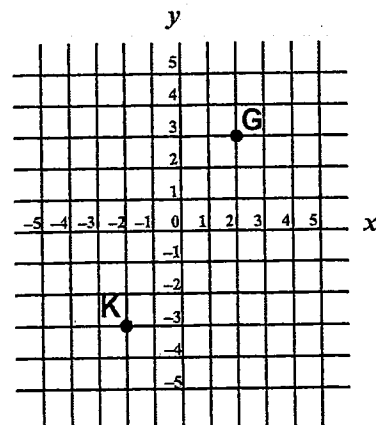
6. If $1.5x = 6$, then $x =$ _____.

7. If $\frac{3}{8}x = 1$, then $x =$ _____.

For Problems 8–9, use the coordinate graph to the right.

8. What are the coordinates of G? _____

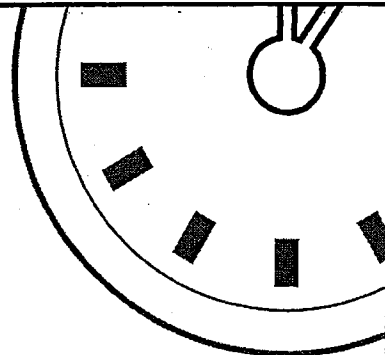
9. What are the coordinates of K? _____



10. $\frac{-15}{-3} =$ $(-5)(3) =$ $\frac{40}{-5} =$ $(-6)(-3) =$

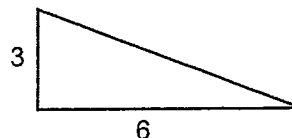


MINUTE 26



1. 1 ton - 300 pounds = _____ pounds.

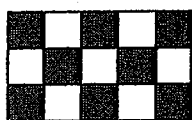
2. Find the area of the right triangle. _____



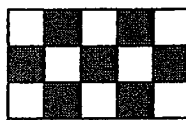
3. Complete the chart.

| Fraction | Decimal | Percent |
|---------------|---------|---------|
| $\frac{3}{2}$ | | |

4. Tina wants dark-colored tile for her floor. Which tile has more black squares? _____



Tile A



Tile B

5.
$$\frac{9 \cdot 5 \cdot 7 \cdot 3 \cdot 6 \cdot 0}{4 \cdot 3 \cdot 2 \cdot 1} =$$

6. $-3(4 + 5) + 2 =$

7. To get the y number, you add _____ to the x number.

| x | y |
|----|----|
| -1 | 1 |
| -3 | -1 |
| -5 | -3 |

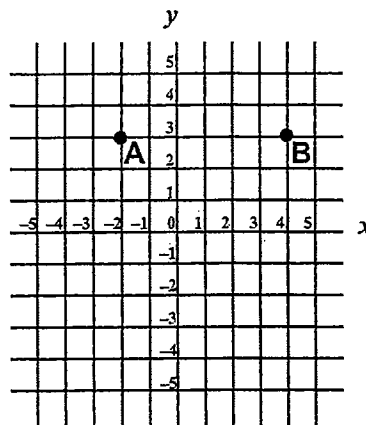
For Problems 8–10, use the coordinate graph to the right.

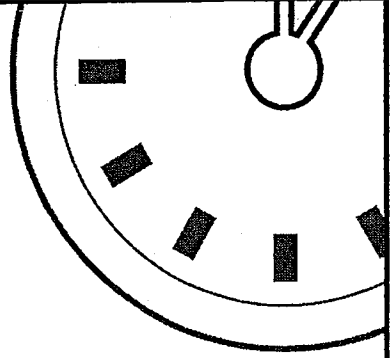
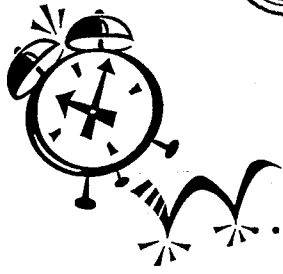
8. What are the coordinates of A? _____

9. What is the distance from A to B? _____

10. To get from B to A, you would travel:

- a. east
- b. west
- c. north
- d. south



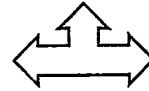


MINUTE 77

1. Cross out the three-dimensional shape.



2. How many lines of symmetry does this shape have? _____



3. If $a - 13 = -8$, then $a =$ _____.

4. Complete the sequence: $\frac{1}{2}, \frac{3}{5}, \frac{5}{8}, \frac{7}{11},$ _____, _____.

5. I am an even number between 30 and 40. If you add my digits together you get 7. What number am I? _____

For Problems 6–8, cross out the number that does not belong in each list.

6. 3 11 13 6

7. 7 8 14 21

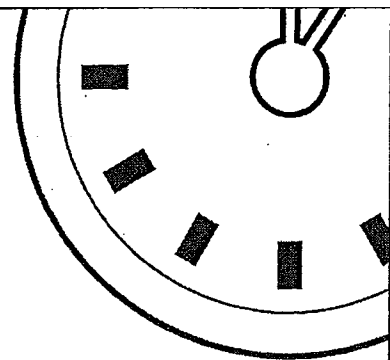
8. 131 272 494 126

9. 10% of 60 = 20% of 60 = 30% of 60 =

10. $138.6 \div 10 =$ $13.86 \div 100 =$ $0.1386 \div 10 =$



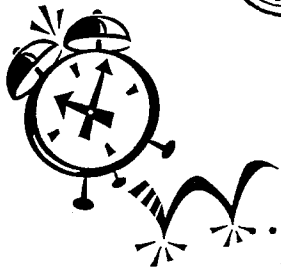
MINUTE 78



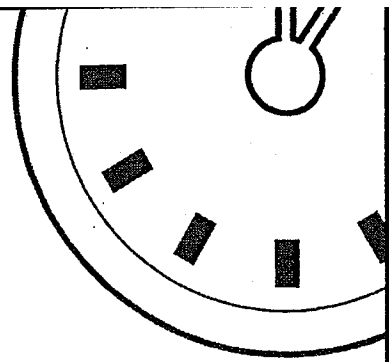
1. A gallon of gas costs \$2.93 per gallon. Marcie's car holds 10 gallons. If her tank is empty, how much will it cost to fill it? _____
2. If $x > 3$, which of these numbers could be a possible number for x ?
a. 3 b. -22 c. 0 d. 4
3. $\frac{3}{4} \div \frac{1}{3} =$
4. All of the following are equal except: 1 $\frac{3}{3}$ $\frac{-3}{-3}$ $\frac{2}{4}$
5. Which of these fractions is not completely reduced? $\frac{2}{6}$ $\frac{2}{5}$ $\frac{3}{7}$

For Problems 6–8 use $>$, $<$, or $=$.

6. $(6)^2$ _____ $(-6)^2$
7. -5 _____ $|-5|$
8. $0.372 \times 1,000$ _____ 37.2×100
9.
$$\begin{array}{r} 3,281 \\ \times 7 \\ \hline \end{array}$$
10. $6 \overline{)11,802} =$



MINUTE 79

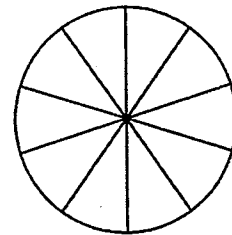


1. If Hal usually mows 21 yards per week, how many yards does he average per day? _____
2. $\frac{3}{7} \div \frac{2}{3} =$
3. Which of these is the correct way to write the number 27.36?
 - a. Twenty-seven and thirty six tenths
 - b. Twenty seven and thirty six hundredths
 - c. Twenty-seven and thirty-six hundredths

For Problems 4–7, match each clue with its correct answer.

4. The positive square root of 9. a. 4
5. Nine squared. b. 24
6. A factor of 8. c. 81
7. A multiple of 12. d. 3

For Problems 8–9, use the circle graph and table of information to the right.

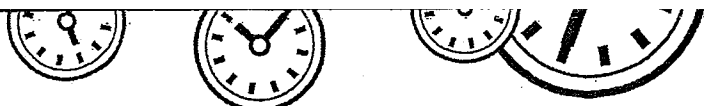


8. The circle has been divided into 10 equal sections. According to the chart, how many sections would need to be shaded for category B? _____
9. How many sections would be shaded for category C?

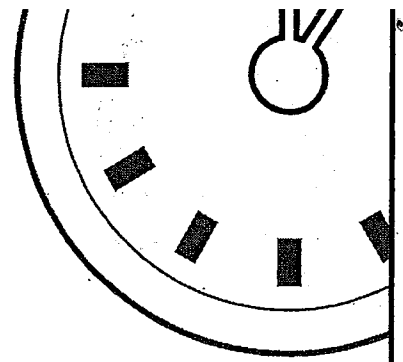
10. Complete the chart:

| Category | Percent |
|----------|---------|
| A | 10% |
| B | 20% |
| C | 40% |
| D | 30% |

| Numbers | Sum | Product | Difference | Quotient |
|---------|-----|---------|------------|----------|
| -9, 3 | | | | |



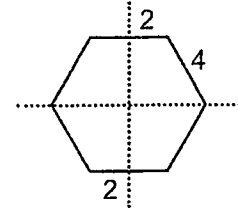
MINUTE 80



1. If two darts were thrown at the board to the right, _____ could be a possible score. a. 15 b. 26 c. 20

| | | |
|----|---|----|
| 6 | 2 | 12 |
| 10 | 8 | 4 |

2. The dotted lines represent the lines of symmetry of this shape. What is the perimeter? _____



For Problems 3–6, match the correct value of n .

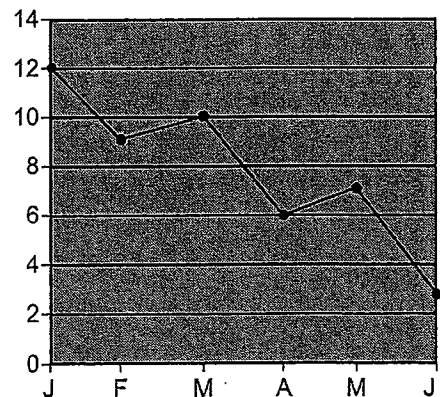
3. $n + 6 = -1$ a. $n = 5$
 4. $-3n = -15$ b. $n = -20$
 5. $n^2 = 16$ c. $n = -7$
 6. $\frac{n}{-5} = 4$ d. $n = 4$

For Problems 7–8, use the graph to the right.

7. This graph shows the value of the stock of a certain company during the first six months of the year. If you bought the stock in January and sold the stock in May, would you have made money or lost money?

8. If you bought the stock in February and sold it in March, would you have made money or lost money?

Stock value per month in dollars



9. $4 \times 0.5 =$ $4 \times 1.5 =$ $4 \times 2.5 =$

10. If $y = 2x + 1$ and $x = 4$, then $y =$ _____.