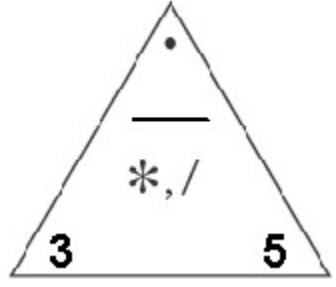


Unit 03 PC Form A

1. Find the missing number in the Fact Triangle.

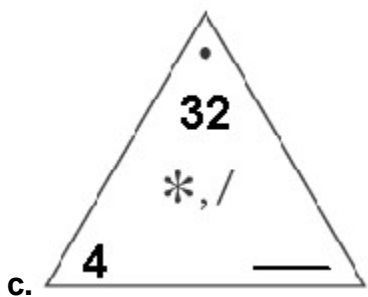
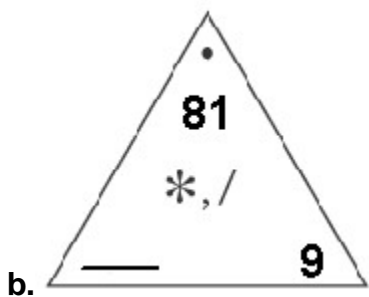
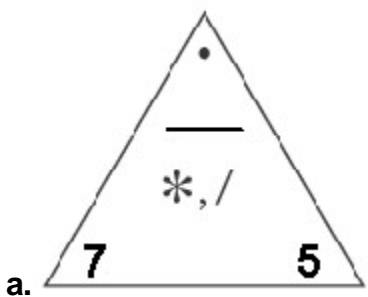


The missing number is _____.

ANSWER: 15

2.  Use pencil and paper to answer the question.

Find the missing number in each Fact Triangle.



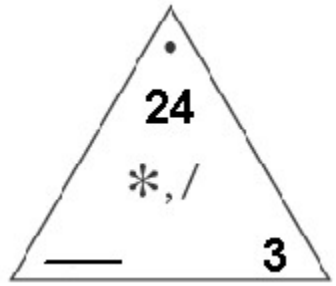
ANSWER:

a. 35

b. 9

c. 8

3. Find the missing number in the Fact Triangle.



The missing number is _____.

ANSWER: 8

4. Write T if the number sentence is true, F if the number sentence is false, or ? if you can't tell.

$2 * 1 = 2$ _____

ANSWER: T
true

Unit 03 PC Form A

5. Write T if the number sentence is true, F if the number sentence is false, or ? if you can't tell.

$0 * 8$ _____

ANSWER: ?
can't tell

6. Write T if the number sentence is true, F if the number sentence is false, or ? if you can't tell.

$1 * 3 = 6 / 3$ _____

ANSWER: F
false

7. Write T if the number sentence is true, F if the number sentence is false, or ? if you can't tell.

$6 * 7 < 49$ _____

ANSWER: T
true

8. Write T if the number sentence is true, F if the number sentence is false, or ? if you can't tell.

$8 * (2 + 7) = 23$ _____

ANSWER: F
false

9. Write T if the number sentence is true, F if the number sentence is false, or ? if you can't tell.

$(9 * 4) + 2 < 3 * 9$ _____

ANSWER: T
true

10.  Use pencil and paper to answer the question.

Write T if the number sentence is true, F if the number sentence is false, or ? if you can't tell.

- | | |
|-----------------------------|--------------------------------|
| a. $1 * 6 = 6$ _____ | b. $9 * 4$ _____ |
| c. $2 * 3 = 48 / 8$ _____ | d. $8 * 2 < 18$ _____ |
| e. $7 * (2 + 3) = 17$ _____ | f. $(5 * 6) + 3 > 3 * 5$ _____ |

ANSWER:

a. T	b. ? (can't tell)
c. T	d. T
e. F	f. F

11. Make a true sentence by filling in the missing number.

_____ = $(7 * 8) + 13$

ANSWER: 69

Unit 03 PC Form A

12. Make a true sentence by filling in the missing number.

$$(16 - 7) * 6 = \underline{\hspace{2cm}}$$

ANSWER: 54

13. Make a true sentence by filling in the missing number.

$$\underline{\hspace{2cm}} = (13 - 7) + 63 / 7$$

ANSWER: 15

14. Make a true sentence by filling in the missing number.

$$(42 \div 6) * (24 \div 4) = \underline{\hspace{2cm}}$$

ANSWER: 42

- 15.
- 
- Use pencil and paper to answer the question.

Make a true sentence by filling in the missing number.

a. $\underline{\hspace{2cm}} = (9 * 6) + 13$

b. $(17 - 9) * 6 = \underline{\hspace{2cm}}$

c. $\underline{\hspace{2cm}} = (16 - 7) + (24 / 6)$

d. $(28 \div 4) * (18 \div 6) = \underline{\hspace{2cm}}$

ANSWER:

a. 67

b. 48

c. 13

d. 21

- 16.
- 
- Use pencil and paper to answer the question.

Make a true sentence by inserting parentheses.

$$39 - 13 + 8 = 18$$

ANSWER: $39 - (13 + 8) = 18$

- 17.
- 
- Use pencil and paper to answer the question.

Make a true sentence by inserting parentheses.

$$81 / 9 + 72 = 1$$

ANSWER: $81 / (9 + 72) = 1$

- 18.
- 
- Use pencil and paper to answer the question.

Make a true sentence by inserting parentheses.

$$34 - 7 + 17 = 10$$

ANSWER: $34 - (7 + 17) = 10$

Unit 03 PC Form A

19.  Use pencil and paper to answer the question.

Make a true sentence by inserting parentheses.

$$8 * 3 + 57 = 81$$

ANSWER: $(8 * 3) + 57 = 81$

20.  Use pencil and paper to answer the question.

Make a true sentence by inserting parentheses.

a. $34 - 16 + 6 = 12$

b. $36 / 6 + 30 = 1$

c. $37 - 6 + 13 = 18$

d. $6 * 3 + 54 = 72$

ANSWER:

a. $34 - (16 + 6) = 12$

b. $36 / (6 + 30) = 1$

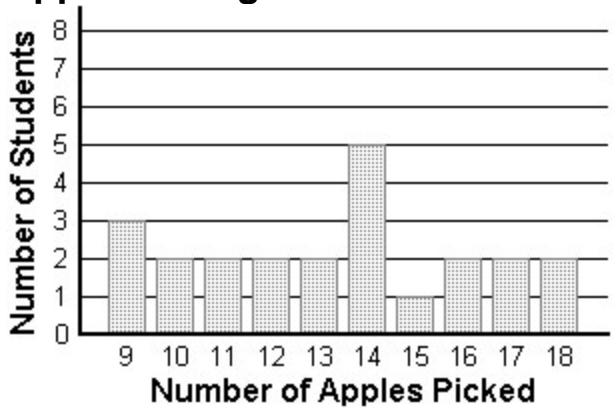
c. $37 - (6 + 13) = 18$

d. $(6 * 3) + 54 = 72$

21.  Use pencil and paper to answer the question.

Use the bar graph to answer the questions.

Apple Picking



a. What is the median number of apples picked? _____

b. What is the range? _____

c. What is the mode? _____

ANSWER: a. 14 apples

b. 9 apples

c. 14 apples

Unit 03 PC Form A

22.  **Use pencil and paper to answer the question.**

Write a number model and solve the number story.

A barracuda can swim at a speed of 43 kilometers per hour. A swordfish can swim about 54 kilometers per hour faster. About how fast can a swordfish swim?

Number Model: _____ kilometers per hour

(Source: <http://www.elasmo-research.org/education/topics>)

ANSWER: Number Model: $43 + 54 = 97$ 97 kilometers per hour

23.  **Use pencil and paper to answer the question.**

Write a number model and solve the number story.

The Johnson family and the Stautmeyer family have farms bordering the same pond. The Johnson family constructed Johnson Pond Road between their farmhouse and the pond in 1968. The road had a length of 4,700 feet. The Stautmeyer family constructed Stautmeyer Pond Road from their farmhouse to the pond in 1973. Stautmeyer Pond Road had a length of 2,330 feet. How much longer is Johnson Pond Road than Stautmeyer Pond Road?

Number model: _____

Answer: _____ ft

ANSWER: Number model: $4,700 - 2,330 = 2,370$

Answer: 2,370 ft

Unit 03 PC Form A

24.  Use pencil and paper to answer the question.

Complete the "What's My Rule?" table and state the rule.

Rule: _____

in	out
6	30
8	40
9	
	25
4	
	15

ANSWER: Rule: $\times 5$

in	out
6	30
8	40
9	45
5	25
4	20
3	15

25.  Use pencil and paper to answer the question.

List all the factors of 110.

ANSWER: 1, 2, 5, 10, 11, 22, 55, 110

26. Solve the open sentence.

$$14 + d = 21 \quad d = \underline{\hspace{2cm}}$$

ANSWER: 7

27. Solve the open sentence.

$$72 = 8 * t \quad t = \underline{\hspace{2cm}}$$

ANSWER: 9

Unit 03 PC Form A

28. Solve the open sentence.

$$6 = x / 9 \quad x = \underline{\hspace{2cm}}$$

ANSWER: 54

29. Solve the open sentence.

$$11 = 30 - c \quad c = \underline{\hspace{2cm}}$$

ANSWER: 19

30.  Use pencil and paper to answer the question.

Solve each open sentence.

a. $r + 529 = 898$

$r = \underline{\hspace{2cm}}$

b. $92 - c = 69$

$c = \underline{\hspace{2cm}}$

c. $m * 6 = 42$

$m = \underline{\hspace{2cm}}$

d. $45 / n = 9$

$n = \underline{\hspace{2cm}}$

ANSWER:

a. 369

b. 23

c. 7

d. 5

31. Solve the open sentence.

$$9 * 7 = 75 - c$$

Solution: $c = \underline{\hspace{2cm}}$

ANSWER: 12

Unit 03 PC Form A

32.  Use pencil and paper to answer the question.

Solve the open sentences.

a. $23 = 16 + z$

Solution: $z =$ _____

b. $6 * a = 48$

Solution: $a =$ _____

c. $p / 9 = 6$

Solution: $p =$ _____

d. $y / 7 = 4$

Solution: $y =$ _____

e. $27 - c = 9$

Solution: $c =$ _____

f. $4 * 3 = 21 - w$

Solution: $w =$ _____

ANSWER:

a. 7

c. 54

e. 18

b. 8

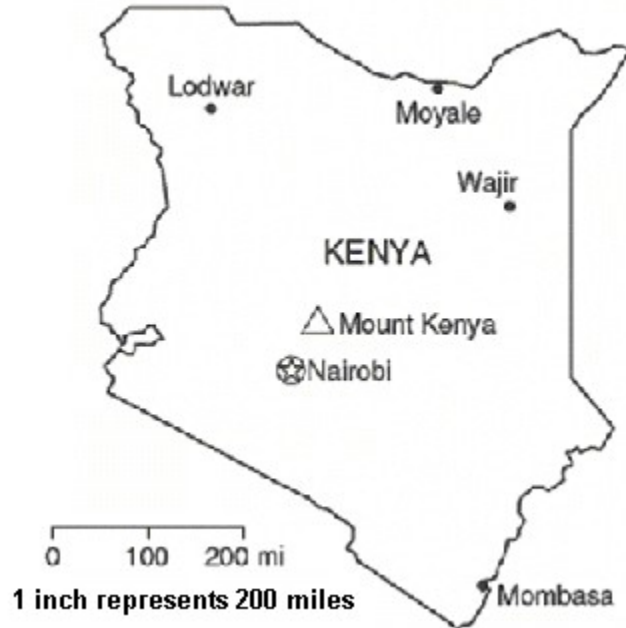
d. 28

f. 9

Unit 03 PC Form A

33.  **Use pencil and paper to answer the question.**

Use the map and map scale to answer the following question.



The distance between Lodwar and Wajir is about _____ miles.
Choose the best answer.

- 250
- 350
- 450
- 550

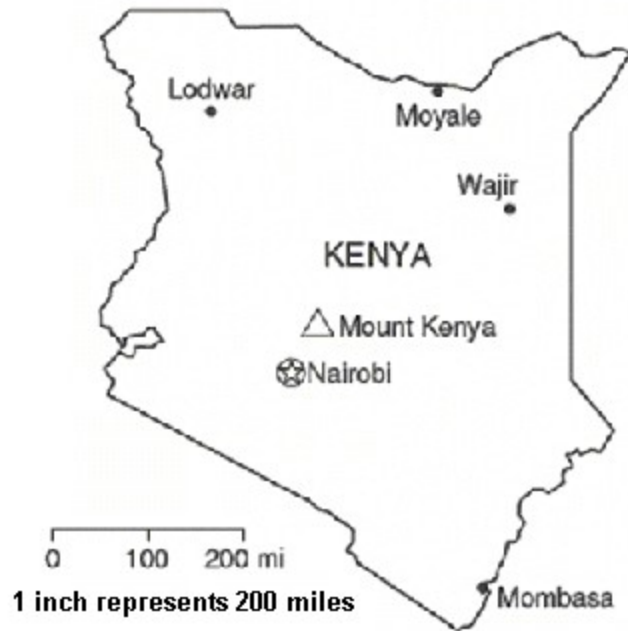
ANSWER: 350

Because of differences in printer scaling, the intended measure of the map scale may be inaccurate.

34.  **Use pencil and paper to answer the question.**

Use the map and map scale to answer the following questions.

Unit 03 PC Form A



Choose the best answer.

a. The distance between Wajir and Mount Kenya

is about _____ miles.

- 150
- 250
- 350
- 450

b. The distance between Wajir and Nairobi

is about _____ miles.

- 100
- 200
- 300
- 400

a. The distance between Wajir and Mount Kenya

is about _____ miles.

- 150
- 250
- 350
- 450

b. The distance between Wajir and Nairobi

is about _____ miles.

- 100
- 200
- 300
- 400

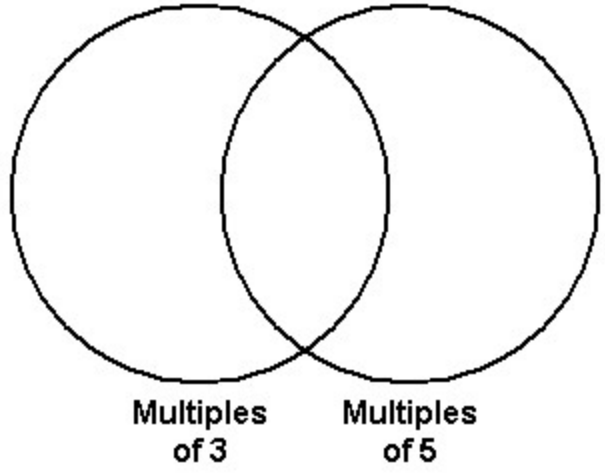
ANSWER:

Because of differences in printer scaling, the intended measure of the map scale may be

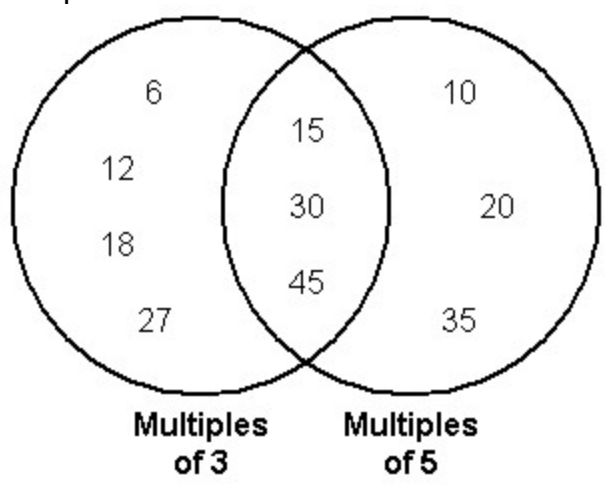
Unit 03 PC Form A

35.  Use pencil and paper to answer the question.

Complete the Venn diagram.
Use at least 10 numbers.



ANSWER: Sample answer:



36.  Use pencil and paper to answer the question.

Name That Number

Darby was playing a game of *Name That Number*. She had the following five number cards and target numbers:

Cards		Target			
					

Her teacher, Mr. Diaz, asked everyone to record their thinking.

Unit 03 PC Form A

Here is what Darby wrote:

$$5 * 4 - 3 * 2 + 1 = 13$$

$$5 * 3 - 4 * 1 + 2 = 13$$

$$5 * 4 / 2 - 3 * 1 = 13$$

a. Mr. Diaz saw that Darby had made mistakes in writing two of her number sentences.

Circle the two number sentences with mistakes.

Explain in words how Darby can correct each number sentence. (Hint: The numbers are in the correct order).

b. Describe two more ways to reach the target number of 13. You do NOT have to use all 5 numbers.

ANSWER: a. Circle the first and third equations.

She could change the plus sign to a minus sign. Then the equation would be

$$5 * 4 - 3 * 2 - 1 = 13.$$

She could change the minus sign to a plus sign. Then the equation would be

$$5 * 4 / 2 + 3 * 1 = 13.$$

Name: _____ Class: _____ Date: _____

Unit 03 PC Form A

b. Here are two other possible solutions:

$$3 + 1 + 4 + 5 = 13$$

$$2 * 4 + 5 = 13$$