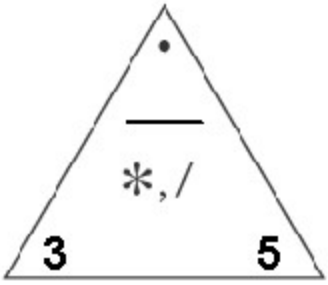
Name:_____ Class:_____ Date:_____

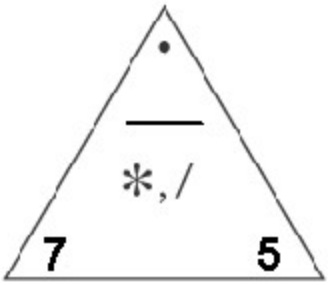
Unit 03 PC Form A

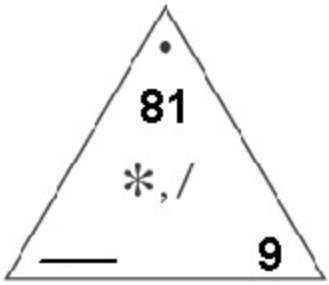
1. Find the missing number in the Fact Triangle.

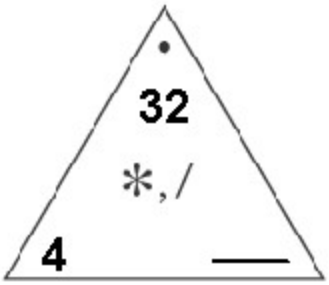


The missing number is _____.

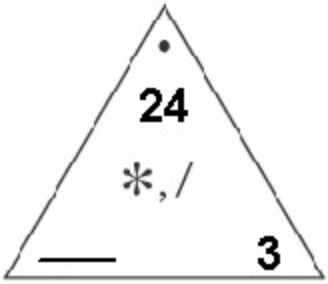
2. **Use pencil and paper to answer the question.**
Find the missing number in each Fact Triangle.

a.


b.


c.


3. Find the missing number in the Fact Triangle.



The missing number is _____.

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 _____

5. Write T if the number sentence is true, F if the number sentence is false, or ? if you can't tell.
0 * 8 _____

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 _____

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 _____

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8. Write T if the number sentence is true, F if the number sentence is false, or ? if you can't tell.
   $8 * (2 + 7) = 23$ _____

9. Write T if the number sentence is true, F if the number sentence is false, or ? if you can't tell.
   $(9 * 4) \div 2 < 3 * 9$ _____

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.** $(5 * 6) \div 3 > 3 * 5$ _____

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

    _____ $= (7 * 8) + 13$

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

    $(16 - 7) * 6 =$ _____

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

    _____ $= (13 - 7) + 63 / 7$

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

    $(42 \div 6) * (24 \div 4) =$ _____

15. **Use pencil and paper to answer the question.**
    Make a true sentence by filling in the missing number.

    a. _____ $= (9 * 6) + 13$ **b.** $(17 - 9) * 6 =$ _____

    c. _____ $= (16 - 7) + (24 / 6)$ **d.** $(28 \div 4) * (18 \div 6) =$ _____

16. **Use pencil and paper to answer the question.**
    Make a true sentence by inserting parentheses.
    $39 - 13 + 8 = 18$

17. **Use pencil and paper to answer the question.**
    Make a true sentence by inserting parentheses.
    $81 / 9 + 72 = 1$

18. **Use pencil and paper to answer the question.**
    Make a true sentence by inserting parentheses.
    $34 - 7 + 17 = 10$

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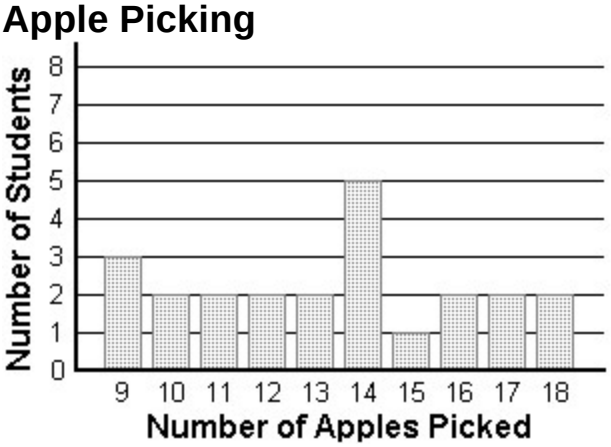
19. **Use pencil and paper to answer the question.**
Make a true sentence by inserting parentheses.
$8 * 3 + 57 = 81$

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.** $6 * 3 + 54 = 72$

21. **Use pencil and paper to answer the question.**
Use the bar graph to answer the questions.



a. What is the median number of apples picked? _____
b. What is the range? _____
c. What is the mode? _____

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)

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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

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

25. **Use pencil and paper to answer the question.**
    List all the factors of 110.
    _____

26. Solve the open sentence.

    $14 + d = 21$ d = _____

27. Solve the open sentence.

    $72 = 8 * t$ t = _____

28. Solve the open sentence.

    $6 = x / 9$ x = _____

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29. Solve the open sentence.

    $11 = 30 - c$ $c =$ _____

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

    Solve each open sentence.

    a. $r + 529 = 898$

    $r =$ _____

    b. $92 - c = 69$

    $c =$ _____

    c. $m * 6 = 42$

    $m =$ _____

    d. $45 / n = 9$

    $n =$ _____

31. Solve the open sentence.
    $9 * 7 = 75 - c$
    Solution: $c =$ _____

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: $w =$ _____

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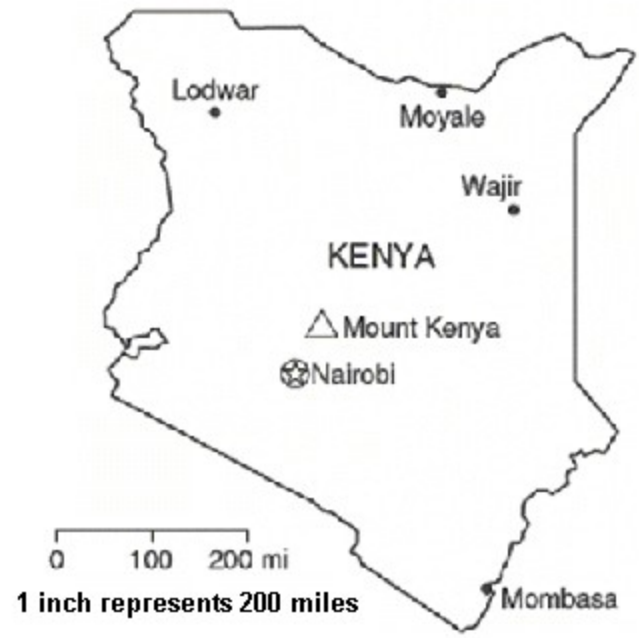
33. **Use pencil and paper to answer the question.**
Use the map and map scale to answer the following question.



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

- ○ 250
- ○ 350
- ○ 450
- ○ 550

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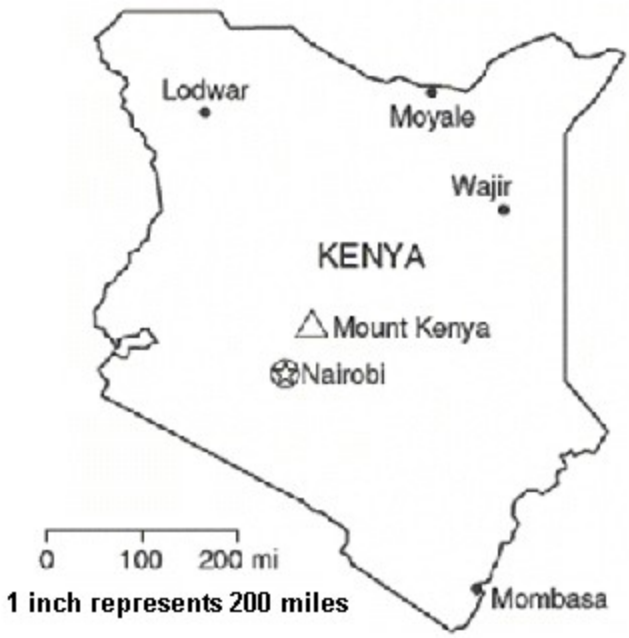
34. **Use pencil and paper to answer the question.**

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



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

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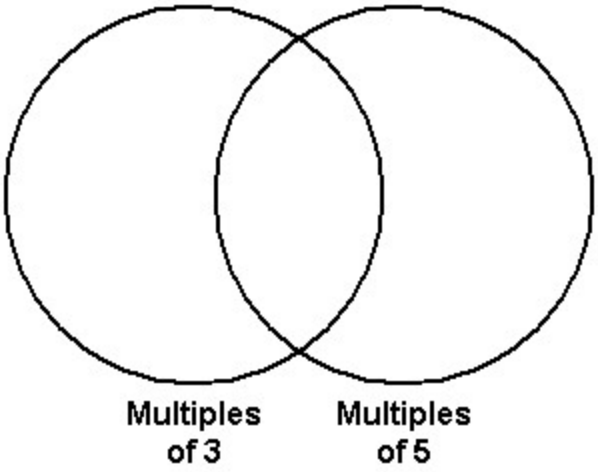
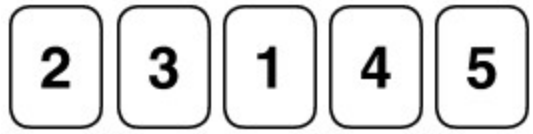
35. **Use pencil and paper to answer the question.**
Complete the Venn diagram.
Use at least 10 numbers.



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.

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).

_____

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_____

_____

_____

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

_____

_____

_____

_____