Number sentences, properties and flow diagrams

Name: _____ Date: _____

Remember: Inverse: + and − undo each other, so do × and ÷. Commutative, associative and distributive work with + and ×.

1. Find the missing number: □ + 245 = 600

Answer: _____

2. Find the missing number: □ − 87 = 129

Answer: _____

3. Find the missing number: □ × 12 = 156

Answer: _____

4. Find the missing number: 720 ÷ □ = 8

Answer: _____

5. Sipho has some marbles. He loses 18 and now has 47 left. Write a number sentence and solve it.

Answer: _____

6. Try and improve: □ × 7 + 5 = 61

Answer: _____

7. Which property is used? 34 + 58 = 58 + 34

Answer: _____

8. Use the distributive property to calculate 8 × 47.

Answer: _____

9. Calculate cleverly: 25 × 19 × 4

Answer: _____

10. True or false? Explain: 48 ÷ 6 = 6 ÷ 48

Answer: _____

11. Complete the flow diagram.



Answer: _____

12. Complete the flow diagram.



Answer: _____

13. What is the rule?

Input	1	2	3	4
Output	7	12	17	22

Answer: _____

14. The rule is × 8 − 5 and the output is 75. What was the input?

Answer: _____

15. Complete: 6 × 99 = 6 × 100 − 6 × □ = □

Answer: _____

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I got _____ out of 15 ★ ★ ★

Memo · Number sentences, properties and flow diagrams

1. **355**
600 − 245 = 355

2. **216**
129 + 87 = 216

3. **13**
156 ÷ 12 = 13

4. **90**
720 ÷ 8 = 90

5. **□ − 18 = 47; □ = 65**
47 + 18 = 65

6. **8**
Try 10: 75 (too much). Try 8: 56 + 5 = 61 ✓

7. **Commutative property**
The numbers are swapped round.

8. **376**
8 × 40 + 8 × 7 = 320 + 56 = 376

9. **1 900**
(25 × 4) × 19 = 100 × 19 = 1 900

10. **False**
48 ÷ 6 = 8, but 6 ÷ 48 is less than 1. Swapping does not work with divide.

11. **18; 42; 72**
3 × 6, 7 × 6, 12 × 6

12. **11; 23; 39**
2 × 4 + 3 = 11; 5 × 4 + 3 = 23; 9 × 4 + 3 = 39

13. **× 5 + 2**
Outputs jump by 5: × 5. 1 × 5 = 5; 7 − 5 = 2

14. **10**
Back: 75 + 5 = 80; 80 ÷ 8 = 10

15. **1; 594**
600 − 6 = 594

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