Factors & multiples

Name _____ Date _____

Find the missing factor.

Common Core 4.OA.B.4

Example 7 × ? = 84

1. Divide the product by the factor you know: 84 ÷ 7 = 12.
2. Check: 7 × 12 = 84.

Answer: 12

1. ☐ × 3 = 81
2. 4 × ☐ = 48
3. ☐ × 2 = 44
4. ☐ × 4 = 68
5. 2 × ☐ = 42
6. 5 × ☐ = 75

Write P for prime or C for composite.

Example 41 and 57: prime or composite?

1. 41 has only two factors, 1 and 41, so it is prime.
2. 57 = 3 × 19, so it has more than two factors: composite.

Answer: 41 P, 57 C

7. 79: prime or composite? ☐
8. 64: prime or composite? ☐
9. 95: prime or composite? ☐
10. 83: prime or composite? ☐
11. 69: prime or composite? ☐
12. 32: prime or composite? ☐

Free to share with other families. Not for resale.

Patterns

Name _____ Date _____

Follow the rule. Write the next four numbers.

Common Core 4.OA.C.5

Example Rule: add 8. Start at 5.
1. Start with 5, then add 8 each time.
2. 5 + 8 = 13, 13 + 8 = 21, 21 + 8 = 29.

Answer: 5, 13, 21, 29

1. Rule: add 14. Start at 30.
   30, ☐, ☐, ☐, ☐
2. Rule: add 21. Start at 14.
   14, ☐, ☐, ☐, ☐
3. Rule: add 15. Start at 5.
   5, ☐, ☐, ☐, ☐
4. Rule: add 13. Start at 11.
   11, ☐, ☐, ☐, ☐
5. Rule: add 22. Start at 32.
   32, ☐, ☐, ☐, ☐
6. Rule: add 25. Start at 49.
   49, ☐, ☐, ☐, ☐

Find the rule. Then write the next number.

Example 97, 91, 85, 79, ... What is the rule?
1. Compare neighbours: 97 − 91 = 6, 91 − 85 = 6.
2. Each number is 6 less. The next number is 79 − 6 = 73.

Answer: subtract 6; next 73

7. 48, 58, 68, 78, ...
   Rule: add ☐ Next: ☐
8. 16, 34, 52, 70, ...
   Rule: add ☐ Next: ☐
9. 70, 76, 82, 88, ...
   Rule: add ☐ Next: ☐
10. 61, 68, 75, 82, ...
    Rule: add ☐ Next: ☐
11. 118, 112, 106, 100, ...
    Rule: subtract ☐ Next: ☐
12. 92, 75, 58, 41, ...
    Rule: subtract ☐ Next: ☐

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Answers

Answers are in the same order as the boxes.

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1. 27
2. 12
3. 22
4. 17
5. 21
6. 15
7. P
8. C (2 × 32)
9. C (5 × 19)
10. P
11. C (3 × 23)
12. C (2 × 16)

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1. 44, 58, 72, 86
2. 35, 56, 77, 98
3. 20, 35, 50, 65
4. 24, 37, 50, 63
5. 54, 76, 98, 120
6. 74, 99, 124, 149
7. add 10; next 88
8. add 18; next 88
9. add 6; next 94
10. add 7; next 89
11. subtract 6; next 94
12. subtract 17; next 24

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