Number patterns and rules worksheet

4th grade math · Operations & Algebraic Thinking · 4.OA.C.5

Name _____ Date _____

For grown-ups: 12 number patterns and rules problems, easier ones first. Let your child try each one alone, then check together with the answer key on page 2. Circle one answer where there are choices.

1. **What is the rule? 9, 13, 17, 21, …**

   ○ **Add 3** ○ **Add 4** ○ **Add 5**
   ○ **Subtract 4**

2. **What is the rule? 10, 14, 18, 22, …**

   ○ **Add 4** ○ **Add 5** ○ **Add 3**
   ○ **Multiply by 4**

3. **What is the rule? 14, 16, 18, 20, …**

   ○ **Add 2** ○ **Add 3** ○ **Add 1**
   ○ **Subtract 2**

4. **What comes next? 4, 8, 12, 16, …**

   Answer: _____

5. **What is the rule? 13, 20, 27, 34, …**

   ○ **Add 8** ○ **Add 6** ○ **Add 7**
   ○ **Multiply by 7**

6. **What is the rule? 7, 17, 27, 37, …**

   ○ **Multiply by 10** ○ **Subtract 10**
   ○ **Add 11** ○ **Add 10**

7. **What comes next? 17, 29, 41, 53, …**

   Answer: _____

8. **What comes next? 6, 13, 20, 27, …**

   Answer: _____

9. **What is the rule? 4, 11, 18, 25, …**

   ○ **Add 7** ○ **Multiply by 7**
   ○ **Subtract 7** ○ **Add 6**

10. **What comes next? 12, 24, 48, 96, …**

    Answer: _____

11. **What comes next? 10, 15, 20, 25, …**

    Answer: _____

12. **What is the rule? 3, 12, 21, 30, …**

    ○ **Multiply by 9** ○ **Add 9** ○ **Add 10**
    ○ **Subtract 9**

Answer key: Number patterns and rules

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1. **Add 4**
   Each number is 4 more than the one before: the rule is add 4.
2. **Add 4**
   Each number is 4 more than the one before: the rule is add 4.
3. **Add 2**
   Each number is 2 more than the one before: the rule is add 2.
4. **20**
   The rule is "add 4". 16 + 4 = 20.
5. **Add 7**
   Each number is 7 more than the one before: the rule is add 7.
6. **Add 10**
   Each number is 10 more than the one before: the rule is add 10.
7. **65**
   The rule is "add 12". 53 + 12 = 65.
8. **34**
   The rule is "add 7". 27 + 7 = 34.
9. **Add 7**
   Each number is 7 more than the one before: the rule is add 7.
10. **192**
    Each number doubles. 96 × 2 = 192.
11. **30**
    The rule is "add 5". 25 + 5 = 30.
12. **Add 9**
    Each number is 9 more than the one before: the rule is add 9.