Factors, multiples and primes worksheet

4th grade math · Operations & Algebraic Thinking · 4.OA.B.4

Name _____ Date _____

For grown-ups: 12 factors, multiples and primes problems, easier ones first. Let your child try each one alone, then check together with the answer key on page 2. Circle one answer for each problem.

1. **Which number is a multiple of 6?**
   ○ **48** ○ **53** ○ **49** ○ **47**

2. **Which number is a factor of 42?**
   ○ **9** ○ **39** ○ **14** ○ **5**

3. **Which number is a factor of 16?**
   ○ **10** ○ **9** ○ **2** ○ **15**

4. **Is 4 prime or composite?**
   ○ **Prime** ○ **Composite**

5. **Is 16 prime or composite?**
   ○ **Prime** ○ **Composite**

6. **Which number is a multiple of 5?**
   ○ **9** ○ **10** ○ **12** ○ **11**

7. **Is 57 prime or composite?**
   ○ **Prime** ○ **Composite**

8. **Which number is a factor of 24?**
   ○ **6** ○ **11** ○ **17** ○ **18**

9. **Which number is a factor of 36?**
   ○ **7** ○ **21** ○ **9** ○ **35**

10. **Which number is a multiple of 3?**
    ○ **26** ○ **24** ○ **23** ○ **25**

11. **Which number is a factor of 40?**
    ○ **2** ○ **7** ○ **13** ○ **24**

12. **Which number is a factor of 20?**
    ○ **13** ○ **14** ○ **3** ○ **4**

Answer key: Factors, multiples and primes

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1. **48**
   6 × 8 = 48, so 48 is a multiple of 6.
2. **14**
   14 × 3 = 42, so 14 is a factor. All factors of 42: 1, 2, 3, 6, 7, 14, 21, 42.
3. **2**
   2 × 8 = 16, so 2 is a factor. All factors of 16: 1, 2, 4, 8, 16.
4. **Composite**
   4 is composite: 1, 2, 4 are all factors.
5. **Composite**
   16 is composite: 1, 2, 4, 8, 16 are all factors.
6. **10**
   5 × 2 = 10, so 10 is a multiple of 5.
7. **Composite**
   57 is composite: 1, 3, 19, 57 are all factors.
8. **6**
   6 × 4 = 24, so 6 is a factor. All factors of 24: 1, 2, 3, 4, 6, 8, 12, 24.
9. **9**
   9 × 4 = 36, so 9 is a factor. All factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36.
10. **24**
    3 × 8 = 24, so 24 is a multiple of 3.
11. **2**
    2 × 20 = 40, so 2 is a factor. All factors of 40: 1, 2, 4, 5, 8, 10, 20, 40.
12. **4**
    4 × 5 = 20, so 4 is a factor. All factors of 20: 1, 2, 4, 5, 10, 20.