

Factors and Multiples: math test, Grade 6 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Vocabulary and lists

/ 4 pts

- a. List all the factors of **40**. (1 pt)
- b. Write the first five multiples of **15**. (1 pt)
- c. Is **57** prime or composite? Justify. (1 pt)
- d. Which of these numbers are prime: **23, 33, 43, 53**? (1 pt)

2 Divisibility

/ 3 pts

- a. Which of the numbers **2, 3, 4, 5, 6, 9, 10** divide **7,236**? Justify with the rules. (2 pts)
- b. The number **48□** has a missing last digit. Find the digit that makes it divisible by both **3** and **5**. (1 pt)

3 Prime factorization

/ 3 pts

- a. Draw a factor tree for **180** and write its prime factorization with exponents. (2 pts)
- b. Use it to explain why **180** is divisible by **12**. (1 pt)

4 GCF and LCM

/ 4 pts

Let the numbers be **45** and **75**.

- a. Find their GCF. (2 pts)
- b. Find their LCM. (2 pts)

5 Distributive property

/ 2 pts

Rewrite **54 + 90** as the product of the GCF and a sum, then evaluate it.

6 Word problems

/ 4 pts

- a. A gym teacher has **84** beanbags and **108** jump ropes. She sets up identical stations with nothing left over. What is the greatest number of stations, and what does each one contain? (2 pts)
- b. The Red Line train comes every **15** minutes and the Blue Line every **20** minutes. Both are at the station at 6:00 a.m. When are they there together next? (2 pts)



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