

Grade 7 Factors, Multiples & Roots Unit Test

Name _____ Date _____ Score _____ / 12

Part A • GCF & LCM

01 GCF of 8 and 18 = _____

02 Prime factorization of 156 = _____

03 One light flashes every 12 seconds and another every 30 seconds. They just flashed together. In how many seconds will they next flash together?

Answer: _____

04 Youssef waters the cactus every 6 days and the fern every 8 days. Both were watered today. In how many days will both be watered on the same day again?

Answer: _____

Part B • Square Roots & Radicals

05 $\sqrt{49} =$ _____

06 $\sqrt{9} =$ _____

07 $\sqrt{144} =$ _____

08 $\sqrt{36} =$ _____

Part C • Order of Operations

09 $(10 - 6) \times 2 =$ _____

10 $(8 - 6) \times 11 =$ _____

Grade 7 Factors, Multiples & Roots Unit Test

Part C · Order of Operations (continued)

11 $(12 + 8) \times 5 =$ _____

12 $(11 + 5) \times 9 =$ _____

Grade 7 Factors, Multiples & Roots Unit Test (Answer Key)

Part A • GCF & LCM

01 GCF of 8 and 18 = 2

02 Prime factorization of 156 =
 $2^2 \times 3 \times 13$

03 One light flashes every 12 seconds and another every 30 seconds. They just flashed together. In how many seconds will they next flash together?

60 seconds

04 Youssef waters the cactus every 6 days and the fern every 8 days. Both were watered today. In how many days will both be watered on the same day again?

24 days

Part B • Square Roots & Radicals

05 $\sqrt{49} = 7$

06 $\sqrt{9} = 3$

07 $\sqrt{144} = 12$

08 $\sqrt{36} = 6$

Part C • Order of Operations

09 $(10 - 6) \times 2 = 8$

10 $(8 - 6) \times 11 = 22$

11 $(12 + 8) \times 5 = 100$

12 $(11 + 5) \times 9 = 144$