

Year 7 Class 6 questions

Q1

Choose ALL the multiples of 2.

88 57 112 62 95 44

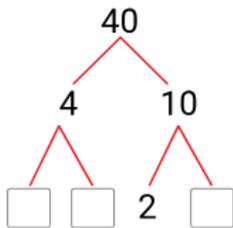
Q2

Select ALL the numbers that are composite.

15 13 11 12

Q3

Complete the factor tree to write 40 as a product of its prime factors.



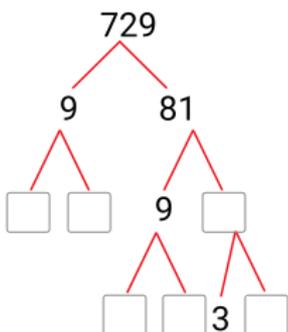
$$40 = \square \times \square \times \square \times \square$$

Q4

$$\sqrt{100} = \square$$

Q5

Complete the factor tree to find $\sqrt[3]{729}$.



$$\sqrt[3]{729} = \square$$

Q6

What is the 5th multiple of 9?

Q7

Find the sum of the first two multiples of 5.

Q8

Find the sum of the first two multiples of 7.

Q9

Select ALL the numbers that are prime.

31 35 25 29 33

Q10

Select ALL the numbers that are composite.

46 61 41 45 49

Q11

What are the first four prime numbers?

5 6 2 7 1

9 3 15 4 8

Q12

Draw a factor tree and use it to write 35 as a product of its prime factors.

35 =

5×7^2 5^7

$5^2 \times 7$ 5×7

Q13

Draw a factor tree and use it to write 36 as a product of its prime factors.

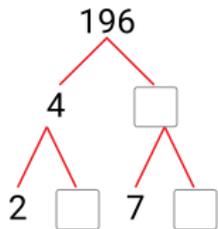
36 =

$2^3 \times 3^3$ $2^2 \times 3$

2×3^2 $2^2 \times 3^2$

Q14

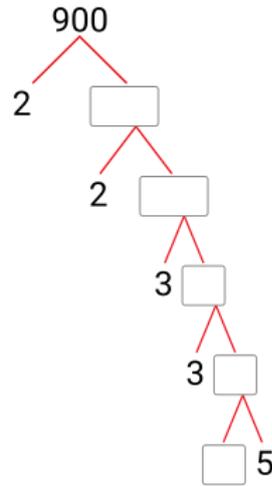
Complete the factor tree to find $\sqrt{196}$.



$\sqrt{196} =$

Q15

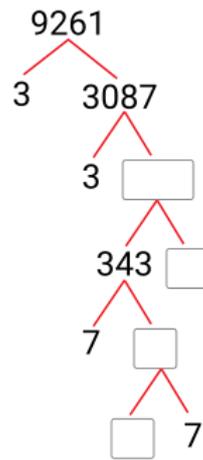
Complete the factor tree to find $\sqrt{900}$.



$\sqrt{900} =$

Q16

Complete the factor tree to find $\sqrt[3]{9261}$.



$\sqrt[3]{9261} =$

Q17

Use a factor tree to help find the answer.

$\sqrt[3]{2744} =$

Q18

Find the sum of the first three multiples of 6.

Q19

List the first 5 multiples of 22.

Q20

List the first 5 multiples of 31.

Q21

List ALL the prime numbers between 70 and 80.

78 71 75 78 77

72 74 73 76 79

Q22

Draw a factor tree and use it to write 48 as a product of its prime factors. Order the factors from smallest to largest (for example $2^2 \times 3 \times 5$).

$$48 = \square^{\square} \times \square$$

Q23

Draw a factor tree and use it to write 150 as a product of its prime factors. Order the factors from smallest to largest (for example $2^2 \times 3 \times 5$).

$$150 = \square \times \square \times \square^{\square}$$

Q24

Draw a factor tree and use it to write 308 as a product of its prime factors. Order the factors from smallest to largest (for example $2^2 \times 3 \times 5$).

$$308 = \square^{\square} \times \square \times \square$$

Q25

Use a factor tree to help find the answer.

$$\sqrt{324} = \square$$

Q26

Use a factor tree to help find the answer.

$$\sqrt{441} = \square$$

Q27

Use a factor tree to help find the answer.

$$\sqrt{1225} = \square$$

Q28

Use a factor tree to help find the answer.

$$\sqrt[3]{4096} = \square$$

Q29

Use a factor tree to help find the answer.

$$\sqrt[3]{5832} = \square$$

Q30

Use a factor tree to help find the answer.

$$\sqrt[3]{13824} = \square$$