Year 7 Class 5 questions

Q1

Find the highest common factor (HCF) of 48 and 60.

HCF = ☐ 12

Q2

Find the lowest common multiple (LCM) of 6 and 4.

LCM = ☐ 12

Q3

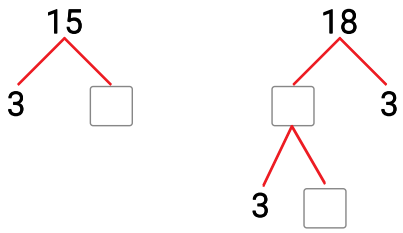
Write in index form.

7 to the power of 2 = $7^{\square}$

7^2

Q4

Complete the factor trees and use them to find the highest common factor (HCF) of **15** and **18**.



HCF = ☐ 3

Q5

Complete the factor trees and use them to find the lowest common multiple (LCM) of **15** and **4**.

LCM = ☐ 60

Q6

Find the highest common factor (HCF) of 96 and 72.

HCF = ☐ 24

Q7

Find the highest common factor (HCF) of 28 and 42.

HCF = ☐ 14

Q8

Find the lowest common multiple (LCM) of 7 and 12.

LCM = ☐ 84

Q9

Find the lowest common multiple (LCM) of 18 and 10.

LCM = ☐ 90

Q10

When written in index notation

$7 \times 3 \times 3 \times 7 \times 7 \times 7 =$ ( )

$7^4 \times 3^2$

$7^2 \times 3^4$ $7^4 \times 3^2$ $7^4 \times 2^3$

Q11

When written in expanded form

$3^2 \times 4 =$ ( )

$3 \times 3 \times 4$

$2 \times 2 \times 2 \times 4$ 6×4 $3 \times 3 \times 4$

Q12

Draw factor trees and use them to find the highest common factor (HCF) of 35 and 42.

HCF = [ ] 7

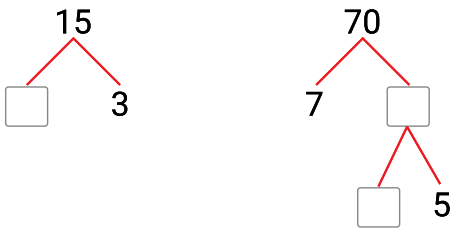
Q13

Draw factor trees and use them to find the highest common factor (HCF) of 24 and 64.

HCF = [ ] 8

Q14

Complete the factor trees and use them to find the lowest common multiple (LCM) of **15** and **70**.



LCM = [ ] 210

Q15

Draw factor trees and use them to find the lowest common multiple (LCM) of 8 and 10.

LCM = [ ]

40

Q16

Find the highest common factor (HCF) of 39 and 156.

HCF = [ ] 39

Q17

Find the highest common factor (HCF) of 6, 12 and 24.

HCF = [ ] 6

Q18

Find the highest common factor (HCF) of 35, 62 and 105.

HCF = [ ] 1

Q19

Find the lowest common multiple (LCM) of 2 ,3 and 5.

LCM = [ ] 30

Q20

Find the lowest common multiple (LCM) of 4 ,5 and 6.

LCM = [ ] 60

Q21

Find the lowest common multiple (LCM) of 15 ,18 and 20.

LCM = [ ] 180

Q22

Find the value of

$(3+5)^2-4^2$ = [ ]

48

Q23

Find the value of

$3\times2^3\div2^2$ = [ ]

6

Q24

Find the value of

$5\times3^4\div3^2$ = [ ]

45

Q25

Draw factor trees and use them to find the highest common factor (HCF) of 75 and 125.

HCF = [ ] 25

Q26

Draw factor trees and use them to find the highest common factor (HCF) of: 175 and 300.

HCF = [ ] 25

Q27

Draw factor trees and use them to find the highest common factor (HCF) of 140 and 175.

HCF = [ ] 35

Q28

Draw factor trees and use them to find the lowest common multiple (LCM) of 60 and 84.

LCM = [ ]

420

Q29

Draw factor trees and use them to find the lowest common multiple (LCM) of 72 and 126.

LCM = [ ]

504

Q30

Draw factor trees and use them to find the lowest common multiple (LCM) of 300 and 250.

LCM = [ ]

1500