

Checkpoint - 5 A

Find all the factors of -

72

$$1 \times 72$$

$$2 \times 36$$

$$3 \times 24$$

$$4 \times 18$$

$$6 \times 12$$

$$8 \times 9$$

factors of 72 = 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72

2) 132

1×132

2×66

3×44

4×33

6×22

11×12

factors of 132 = 1, 2, 3, 4, 6, 11, 12, 22, 33, 44, 66, 132

c) 392

1×392

2×196

4×98

7×56

8×49

14×28

factors of 392 = 1, 2, 4, 7, 8, 14, 28, 49, 56, 98, 196, 392

$$d) 1001$$

$$1 \times 1001$$

$$7 \times 143$$

$$11 \times 91$$

$$13 \times 77$$

Factors of 1001 = 1, 7, 11, 13, 77, 91, 143, 1001

2. Is 5 a factor of 5293?

Rule of 5 $\rightarrow$ The last digit should be 0, 5

So $5293 \div 5 =$ not possible!

3. T. Book

$$4. 53948 \div 7$$

$$\text{Rule of 7} = 53\overset{8}{9}48 \times 2 = 16$$

$$- 16$$

$$5378 \times 2 = 16$$

$$- 16$$

$$521 \times 2 = 2$$

$$- 2$$

$$50 \times 2 = 0$$

$$- \overset{0}{5}$$

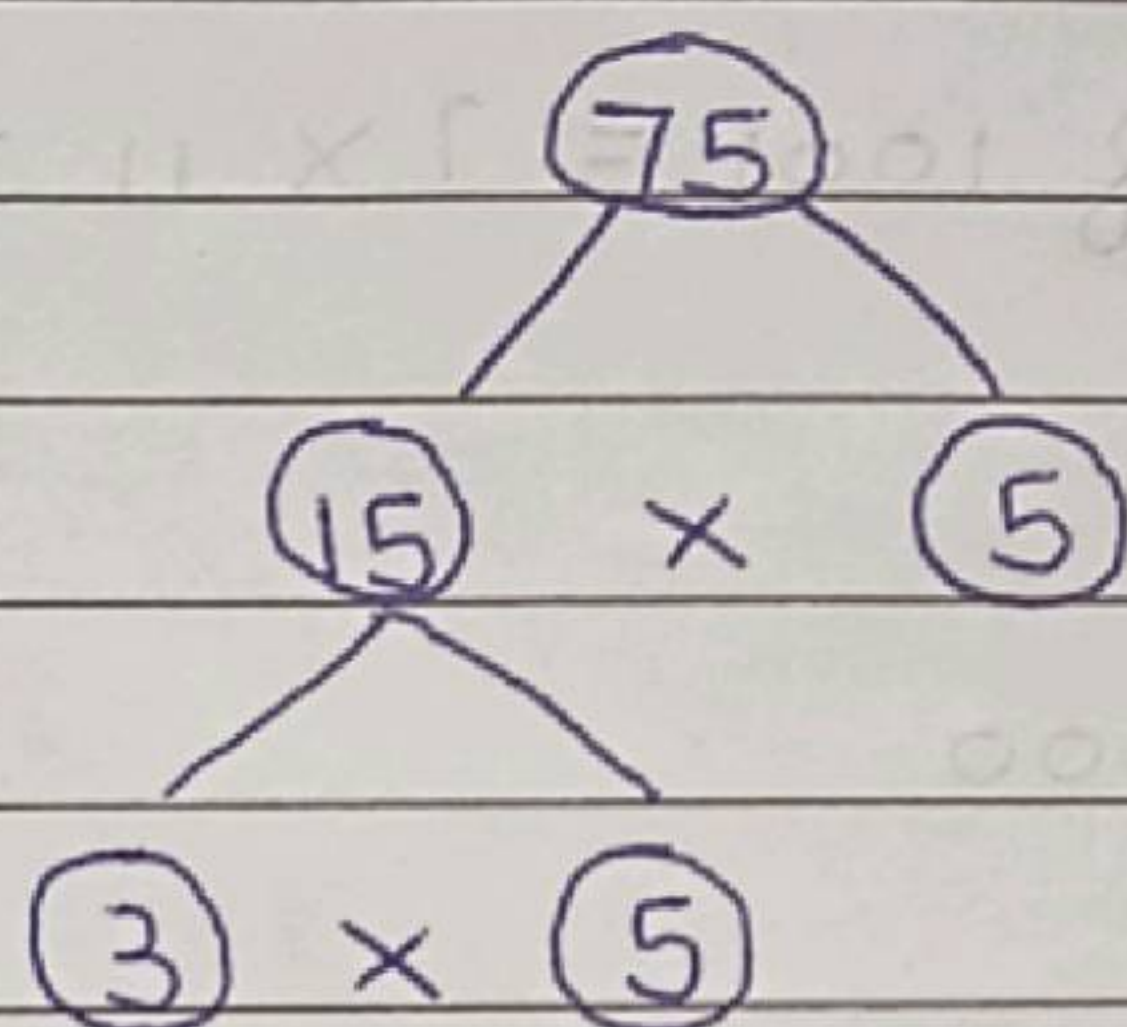
Ans $53948 \div 7 =$ not possible

Checkpoint - 5B

Q-1. Find the prime factorisation of the following numbers using any method.

a) 75

factor tree method



P. factors of 75 = $3 \times 5 \times 5$

Prime Factorisation method

3	75
5	25
	5

PF of 75 = $3 \times 5 \times 5$

b) 97

97 | 97

1

PF of 97 = 97

c) 1001

7 | 1001

11 | 143

13 | 13

1

PF of 1001 = $7 \times 11 \times 13$

d) 1550

e

2000

2 | 1550

5 | 775

5 | 155

31 | 31

1

PF of 1550 =

 $31 \times 5 \times 5 \times 2$

5 | 5

2 | 2000

2 | 1000

2 | 500

2 | 250

5 | 125

5 | 25

PF of 2000 = $2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 5$

f) 242

2 | 242

11 | 121

11 | 11

1

$$\text{PF of } 242 = 2 \times 11 \times 11$$

g) 1331

11 | 1331

11 | 121

11 | 11

1

$$\text{PF of } 1331 = 11 \times 11 \times 11$$

1001 | 11

11 | 1001

11 | 1001

11 | 1001

11

Q-2: Check each of the ----- or not.

a) 150, 5

Divisibility rule of 5 $\rightarrow$ The last digit should be 0 or 5.
and it is 5.

So 5 is a factor of 150

b) 1227, 7

According to rule $= 1227 \times 2 = 14$

$- 14$

$108 \times 2 = 16$

$- 16$

6 no

So 7 is not a factor of 1227.

c) 1001, 13

$$\begin{array}{r}
 77 \\
 13 \overline{) 1001} \\
 \underline{-91} \downarrow \\
 0091 \\
 \underline{-91} \\
 0
 \end{array}$$

d) 2121, 101

$$\begin{array}{r}
 101 \overline{) 2121} \\
 \underline{- 202} \\
 0101 \\
 \underline{- 101} \\
 0
 \end{array}$$

Yes 101 is a factor of 2121.

e) 192, 11

$$\begin{array}{r}
 17 \\
 11 \overline{) 192} \\
 \underline{- 11} \\
 082 \\
 \underline{- 77} \\
 5
 \end{array}$$

No, 11 is not a factor of 192.

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8) 3333, 6

$$6 = 2 \times 3$$

Rule of 2 = last digit 2, 4, 6, 8, 0 No

Rule of 3 = $3 + 3 + 3 + 3 = 12$ Yes

So $\rightarrow$ 6 is not a factor of 3333.