

Highest Common Factor

1. List all the factors of each of the following numbers:
 - a. 8
 - b. 15
 - c. 20
 - d. 45
 - e. 32
 - f. 28
 - g. 100
 - h. 49

2. Using your answers from Q1, find the highest common factors of the following pairs of numbers:
 - a. 8 and 20
 - b. 15 and 20
 - c. 15 and 45
 - d. 28 and 49
 - e. 8 and 100
 - f. 28 and 32
 - g. 20 and 100
 - h. 20 and 45
 - i. 15 and 32

3. Find the highest common factors of the following pairs of numbers:
 - a. 9 and 12
 - b. 18 and 22
 - c. 35 and 42
 - d. 13 and 39
 - e. 24 and 60
 - f. 25 and 50

4. Find the highest common factors of the following groups of numbers:
 - a. 4, 6 and 12
 - b. 25, 40 and 60
 - c. 20, 30 and 45
 - d. 16, 24 and 40
 - e. 15, 18 and 21
 - f. 9, 27 and 36

5. Two pieces of string are 20 cm and 24 cm long. They need to be cut into pieces of equal length. What is the maximum length of each piece?

Highest Common Factor

1. List all the factors of each of the following numbers:

a. 8

1, 2, 4, 8

b. 15

1, 3, 5, 15

c. 20

1, 2, 4, 5, 10, 20

d. 45

1, 3, 5, 9, 15, 45

e. 32

1, 2, 4, 8, 16, 32

f. 28

1, 2, 4, 7, 14, 28

g. 100

1, 2, 4, 5, 10, 20, 25, 50, 100

h. 49

1, 7, 49

2. Using your answers from Q1, find the highest common factors of the following pairs of numbers:

a. 8 and 20

4

b. 15 and 20

5

c. 15 and 45

15

d. 28 and 49

7

e. 8 and 100

4

f. 28 and 32

4

g. 20 and 100

20

h. 20 and 45

5

i. 15 and 32

1

3. Find the highest common factors of the following pairs of numbers:

a. 9 and 12

3

b. 18 and 22

2

c. 35 and 42

7

d. 13 and 39

13

e. 24 and 60

12

f. 25 and 50

25

4. Find the highest common factors of the following groups of numbers:

a. 4, 6 and 12

2

b. 25, 40 and 60

5

c. 20, 30 and 45

5

d. 16, 24 and 40

8

e. 15, 18 and 21

3

f. 9, 27 and 36

9

5. Two pieces of string are 20 cm and 24 cm long. They need to be cut into pieces of equal length. What is the maximum length of each piece?

4 cm

