

Le Plus Grand Facteur Commun (E)

Nom: _____

Date: _____

Utilisez les facteurs premiers des nombres dans chaque série pour calculer le plus grand facteur commun.

a) $192 = \textcircled{2} \times 2 \times 2 \times 2 \times 2 \times 2 \times \textcircled{3}$

b) 144

$6 = \textcircled{2} \times \textcircled{3}$

152

PGFC = $\textcircled{2} \times \textcircled{3} = 6$

c) 45

d) 376

369

260

e) 294

f) 294

30

60

g) 297

h) 294

117

102

i) 172

j) 102

332

270

Le Plus Grand Facteur Commun (E) Réponses

Nom: _____

Date: _____

Utilisez les facteurs premiers des nombres dans chaque série pour calculer le plus grand facteur commun.

$$\text{a) } 192 = \textcircled{2} \times 2 \times 2 \times 2 \times 2 \times 2 \times \textcircled{3}$$

$$6 = \textcircled{2} \times \textcircled{3}$$

$$\text{PGFC} = \textcircled{2} \times \textcircled{3} = 6$$

$$\text{b) } 144 = \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times 2 \times 3 \times 3$$

$$152 = \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times 19$$

$$\text{PGFC} = \textcircled{2} \times \textcircled{2} \times \textcircled{2} = 8$$

$$\text{c) } 45 = \textcircled{3} \times \textcircled{3} \times 5$$

$$369 = \textcircled{3} \times \textcircled{3} \times 41$$

$$\text{PGFC} = \textcircled{3} \times \textcircled{3} = 9$$

$$\text{d) } 376 = \textcircled{2} \times \textcircled{2} \times 2 \times 47$$

$$260 = \textcircled{2} \times \textcircled{2} \times 5 \times 13$$

$$\text{PGFC} = \textcircled{2} \times \textcircled{2} = 4$$

$$\text{e) } 294 = \textcircled{2} \times \textcircled{3} \times 7 \times 7$$

$$30 = \textcircled{2} \times \textcircled{3} \times 5$$

$$\text{PGFC} = \textcircled{2} \times \textcircled{3} = 6$$

$$\text{f) } 294 = \textcircled{2} \times \textcircled{3} \times 7 \times 7$$

$$60 = \textcircled{2} \times 2 \times \textcircled{3} \times 5$$

$$\text{PGFC} = \textcircled{2} \times \textcircled{3} = 6$$

$$\text{g) } 297 = \textcircled{3} \times \textcircled{3} \times 3 \times 11$$

$$117 = \textcircled{3} \times \textcircled{3} \times 13$$

$$\text{PGFC} = \textcircled{3} \times \textcircled{3} = 9$$

$$\text{h) } 294 = \textcircled{2} \times \textcircled{3} \times 7 \times 7$$

$$102 = \textcircled{2} \times \textcircled{3} \times 17$$

$$\text{PGFC} = \textcircled{2} \times \textcircled{3} = 6$$

$$\text{i) } 172 = \textcircled{2} \times \textcircled{2} \times 43$$

$$332 = \textcircled{2} \times \textcircled{2} \times 83$$

$$\text{PGFC} = \textcircled{2} \times \textcircled{2} = 4$$

$$\text{j) } 102 = \textcircled{2} \times \textcircled{3} \times 17$$

$$270 = \textcircled{2} \times \textcircled{3} \times 3 \times 3 \times 5$$

$$\text{PGFC} = \textcircled{2} \times \textcircled{3} = 6$$