Factors and Highest Common Factors (HCF)

MATHS·SCHOOL

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Name:

List all the factors of the following numbers:

a) 10

b) 24

c) 18

d) 16

e) 28

f) 25

g) 48

h) 75

i) 96

j) 36

k) 56

l) 60

Find the highest common factor (HCF) of the following set of numbers:

m) 10 & 12

n) 14 & 18

o) 16 & 24

p) 12 & 28

q) 25 & 35

r) 60 & 90

s) 56 & 64

t) 36 & 60

u) 45 & 75

v) 48 & 72

Multiple choice (there may be more than one option in your answer)

w) Circle the numbers listed which are factors of 14, but not multiples of 7

| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 10 | 14 | 18 | 28 |

x) Circle the numbers listed which are factors of 20, but not multiples of 5

| 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 15 | 20 | 30 |

y) Circle the numbers listed which are factors of 30, but not multiples of 4

| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 10 | 12 | 15 | 30 |

z) Circle the numbers listed which are factors of 72, but not multiples of 6

| 1 | 3 | 6 | 8 | 9 | 12 | 18 | 24 | 36 | 48 | 72 |

Exam question:

Timothy is thinking of a whole number which is a factor of 32.
The number is also 1 less than a square number.
What number is Timothy thinking of?