Handout 4 – 5 Section 25
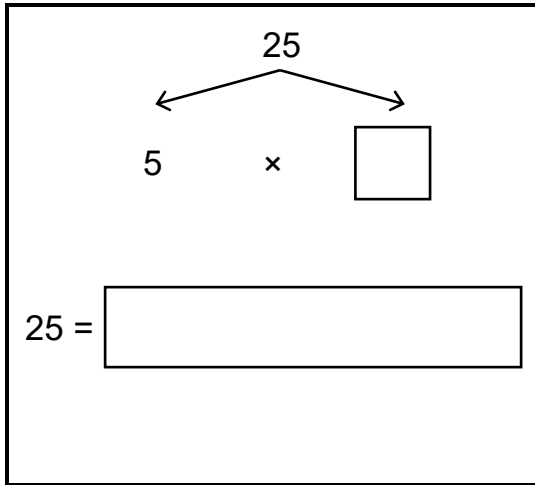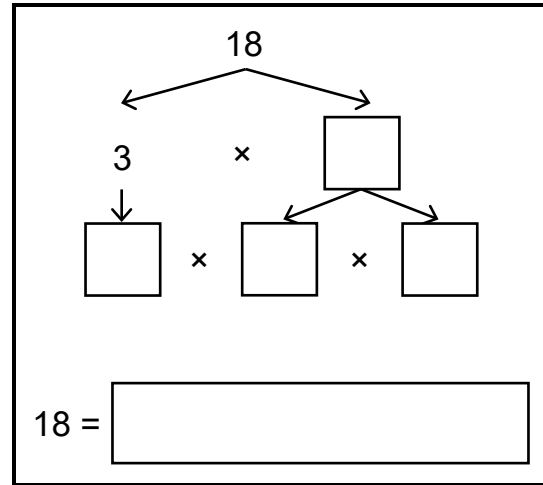
Prime Factors – Multiples

1. Complete the factor tree for each number. **Write** the corresponding equation with the prime factors.

a)

25

5 × ☐

25 = ☐

b)

18

3 × ☐

☐ × ☐ × ☐

18 = ☐

c)

36

4 × ☐

☐ × ☐   ☐ × ☐

36 = ☐

d)

72

8 × ☐

☐ × ☐   ☐ × ☐

☐ × ☐ × ☐ × ☐ × ☐
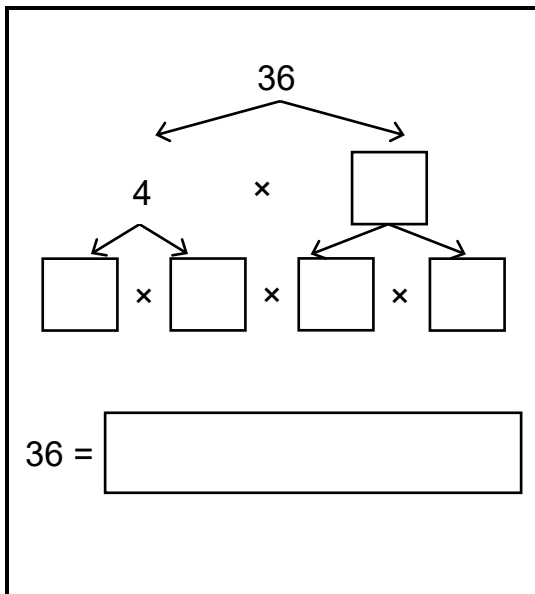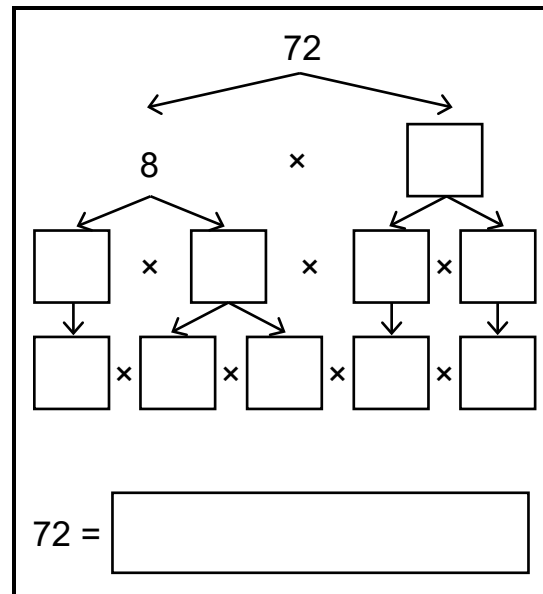
72 = ☐

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2. Draw the factor tree for each number. **Write** the corresponding equation with the prime factors.

a)   32

b)   48

3. Draw an X on the multiple of 3 in each series of numbers.
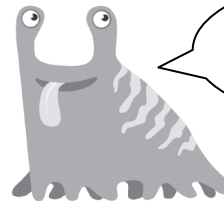
a)   16   27   34   49   74

b)   11   14   20   21   29

> You can use a calculator to do this exercise.

4. Liam likes to go swimming at the town pool and then enjoy an ice cream cone at the parlour next door.

- The pool is open every 6 days.
- The ice cream parlour is open every 9 days.

Today, Liam went swimming at the pool and had an ice cream cone.

In how many days will he be able to do this again?

Day	0	3	6	9	12	15	18	21	24
Pool open	X								
Parlour open	X								

Liam will be able to go swimming and have an ice cream cone

in ☐ days.

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