

Year 5

Multiplicative Fluency 3

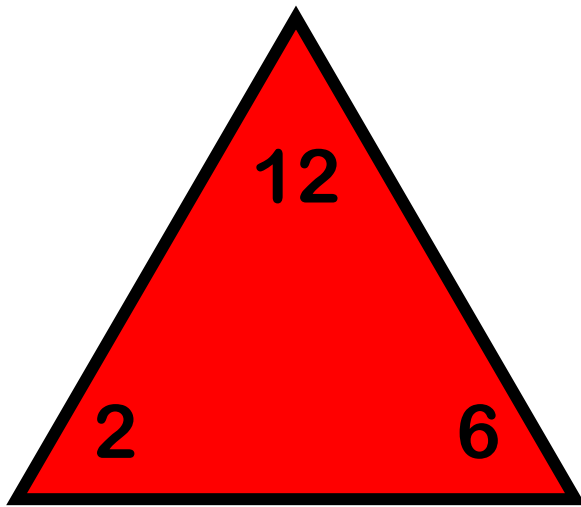
Week 2

Numbers 12, 14, 32 and 36

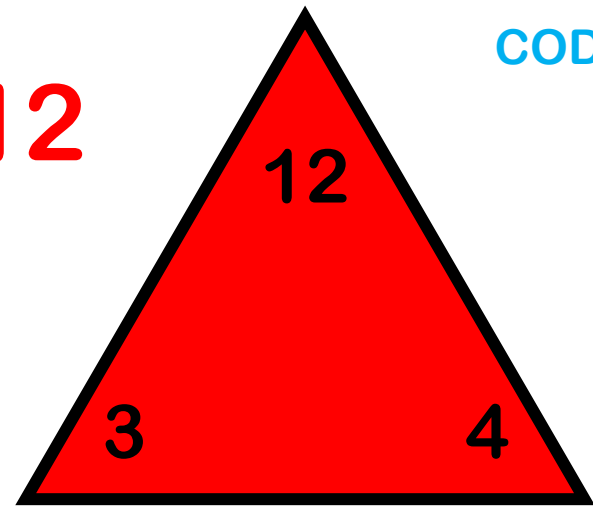
Notes for teachers in school or at home:

- **Learn key factors for each number.**
- **Use these to multiply, divide and find fractions.**

Key factors of 12



Remember these
factor triangles!



$$12 = 2 \times \text{♥}$$

$$12 = 6 \times \text{●}$$

$$120 \div 2 = \text{★}$$

$$120 \div \text{▽} = 20$$

Copy both factor
triangles for 12.
Hide one number.
Work out what is
hidden.

If you remember
those triangles, you
can solve all these!

$$\text{◆} \times 4 = 12$$

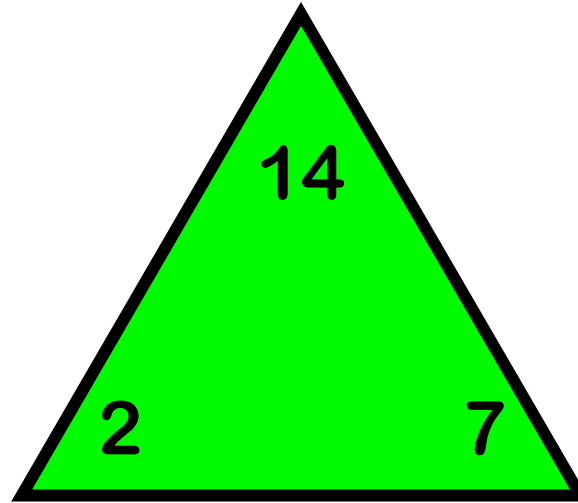
$$\text{☁} \times 4 = 120$$

$$12 \div 3 = \text{⬡}$$

$$1.2 \div 3 = \text{⬠}$$

Factors of 14

S	S	M	T	W	Th	F
S	S	M	T	W	Th	F



$$2 \times 7 =$$
$$20 \times 7 =$$
$$200 \times 7 =$$

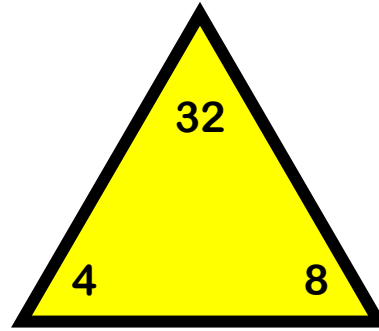
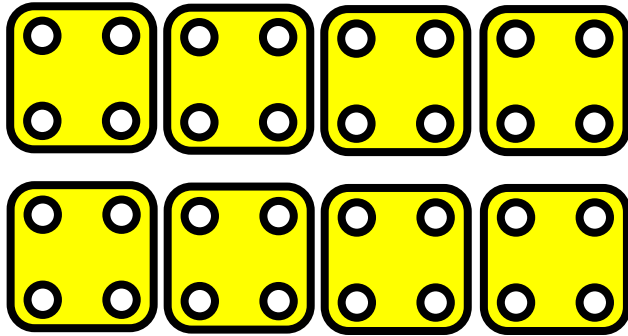
$$14 \div 7 =$$
$$140 \div 7 =$$
$$1400 \div 7 =$$
$$140 \div 70 =$$

How many days in 1 week?
How many days in 2 weeks?

Count to 14 in steps of 2.
How many jumps of 2?

Count to 140 in steps of 20.
Count to 1.4 in steps of 0.2.

Factors of 32



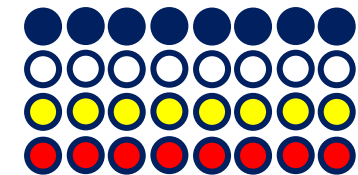
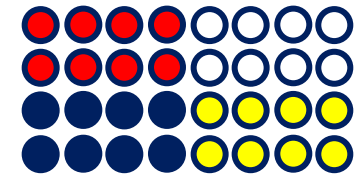
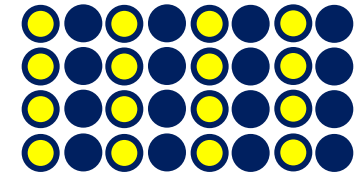
Use the factors to solve these:

$$32 = 4 \times \heartsuit$$

$$32 \div \blacktriangledown = 4$$

$$320 = 8 \times \bullet$$

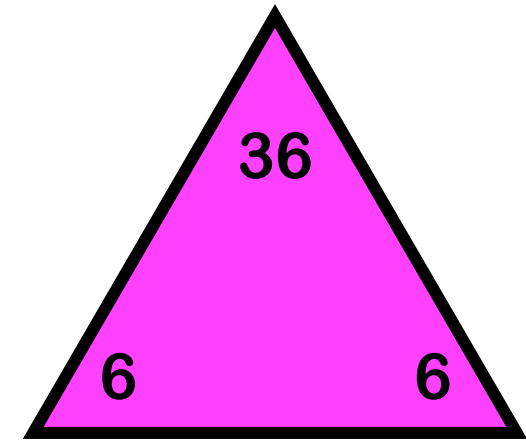
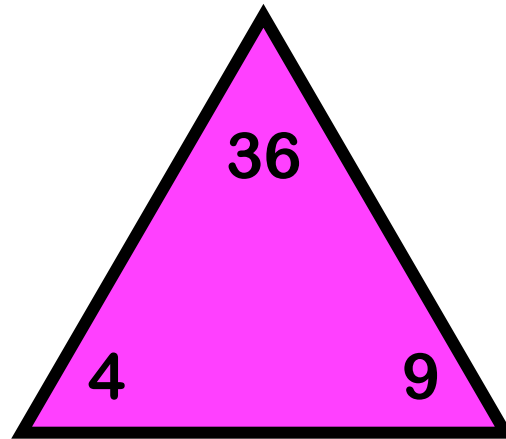
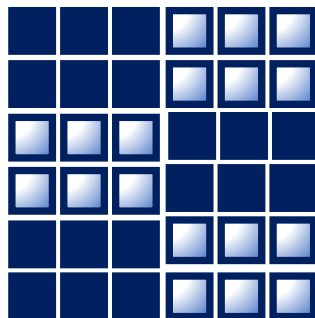
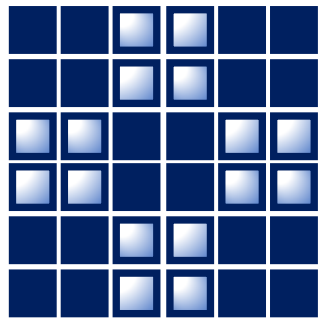
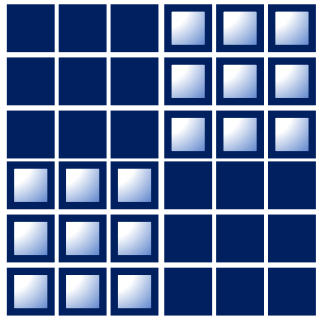
$$\frac{1}{4} \text{ of } 32 \text{ is } \square$$



Look how these dice make 32.
What equal groups can you make?

Can you see...
4 groups of 8?
8 groups of 4?
32 shared by 4?
 $\frac{1}{8}$ of 32?

Factors of 36

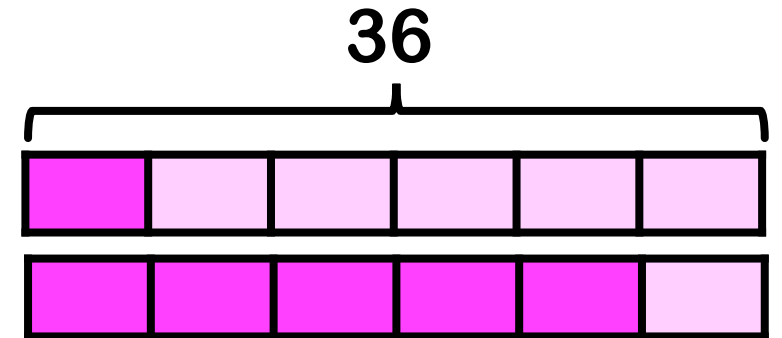


$$\square \times 9 = 36$$

$$36 \div 9 = \square$$

$$\frac{1}{4} \text{ of } 36 \text{ is } \square$$

$$\frac{1}{\square} \text{ of } 36 \text{ is } 4$$



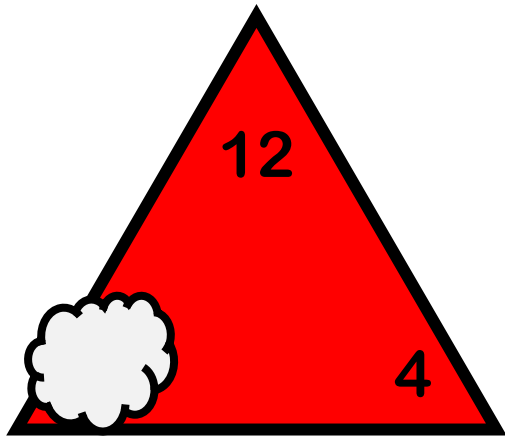
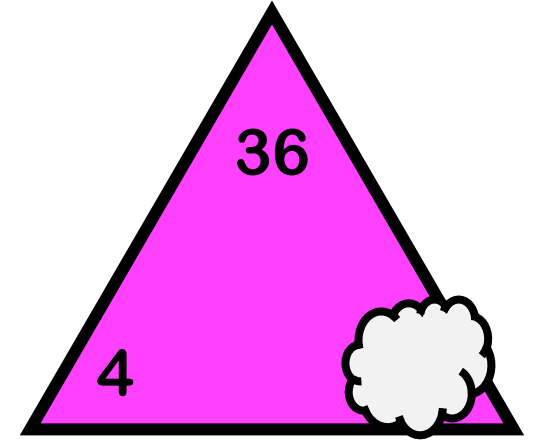
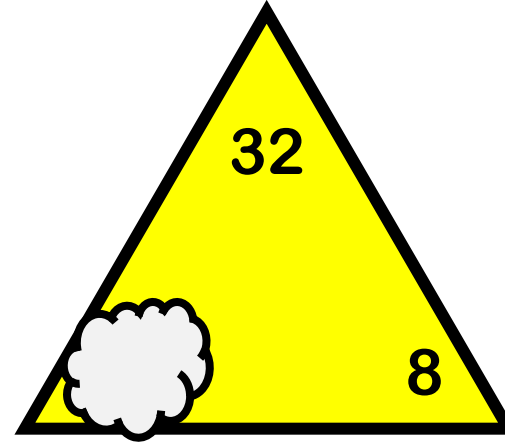
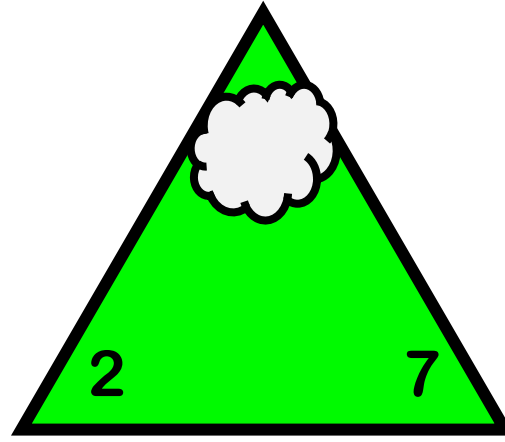
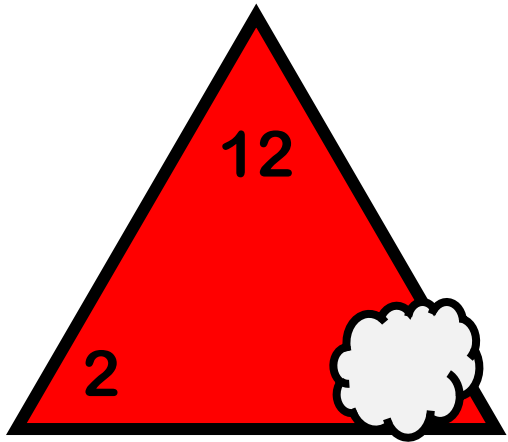
$$\frac{1}{6} \text{ of } 36 \text{ is } \square$$

$$\frac{5}{6} \text{ of } 36 \text{ is } \square$$

Can you see:

- 9 groups of 4?
- 4 groups of 9?
- 6 equal groups?

Review

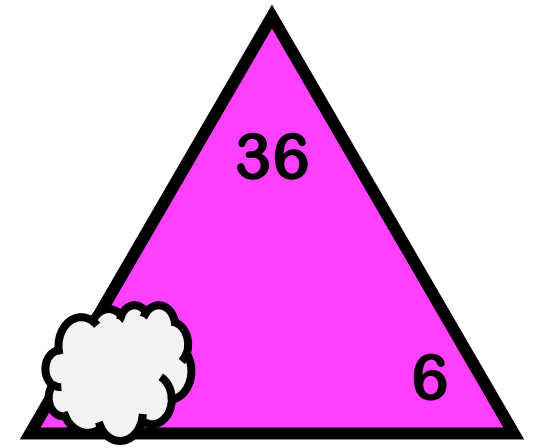


Learn these 6 factor triangles off by heart.

Then learn how to make new facts, like:

$$2 \times 0.7 = 1.4$$

$$\frac{1}{4} \text{ of } 360 = 90$$



Well done! See you next week!