Year 4

Multiplicative Fluency 2

Week 2

Numbers 32 and 36

Understanding 32 and 36!
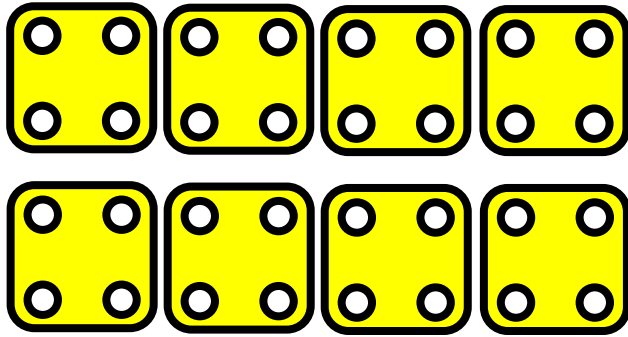
Notes for teachers in school or at home:

- **This week is about learning key factors for 32 and 36 (up to 9x table)**

- **Know that 32 has 1 key fact: 4×8**

- **Know that 36 has 2 key facts: 6×6, and 4×9.**

- **Understand that there are other factors, eg 3×12 or 2×16, but focus is on learning up to 9×9.**

- **Know division and fraction facts for each number.**
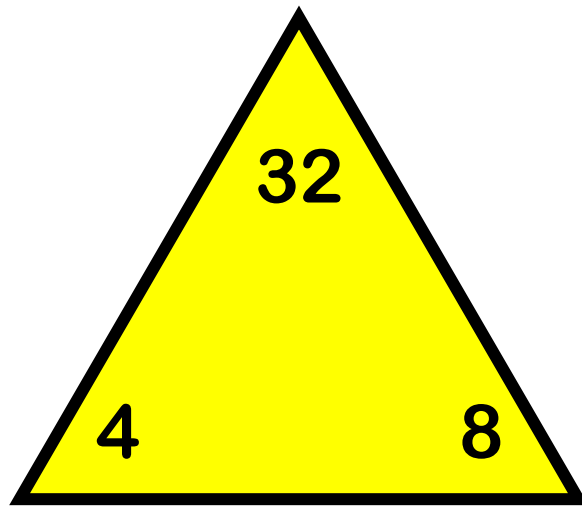
Equal groups to make 32
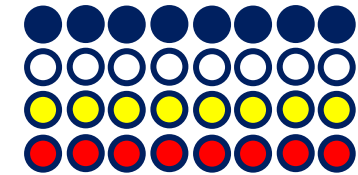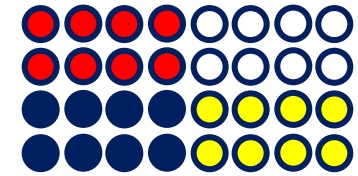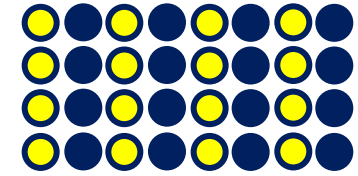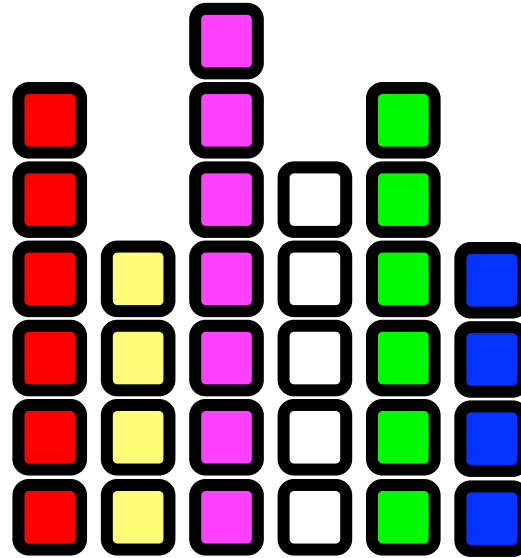
Look how these dice make 32.

What equal groups can you make?

32 blocks in unequal towers.

Use 32 blocks and make towers of equal height.

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

Key factors of 32

32

4   **8**

Remember this factor triangle for 32!

Copy the factor triangle for 32. Hide one number. Work out what is hidden.

$32 = 4 \times$ ❤️

$32 = 8 \times$ 🔵

$32 \div 4 =$ ⭐

$32 \div$ 🔻 $= 4$

Now I know this triangle, I can solve all these!

◆ $\times 4 = 320$

☁️ $\times 40 = 320$

$320 \div 4 =$ ⬡

$320 \div 40 =$ ⬠

Equal groups to make 36
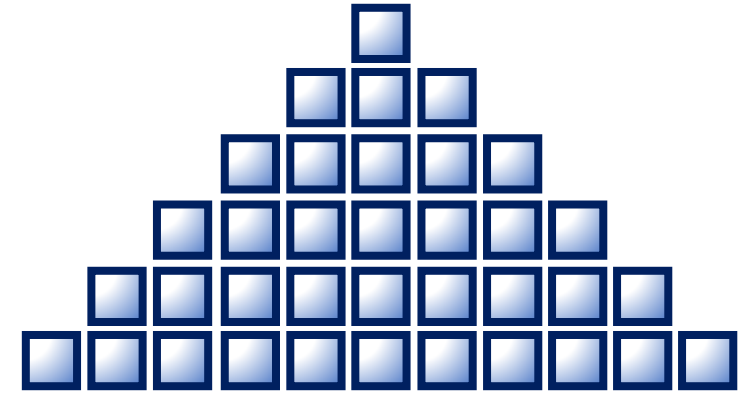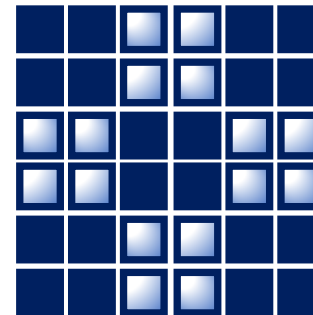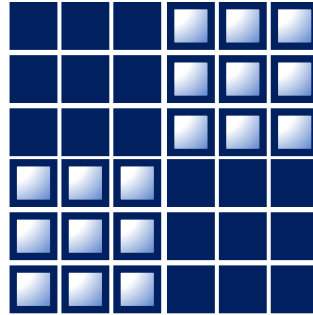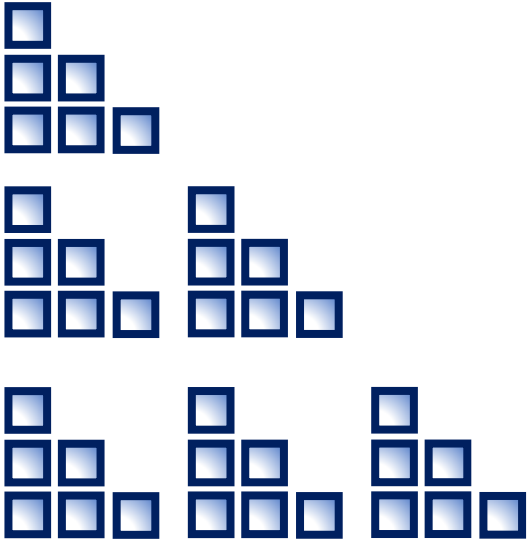
What equal groups can you see?

6 groups of 6?

9 groups of 4?

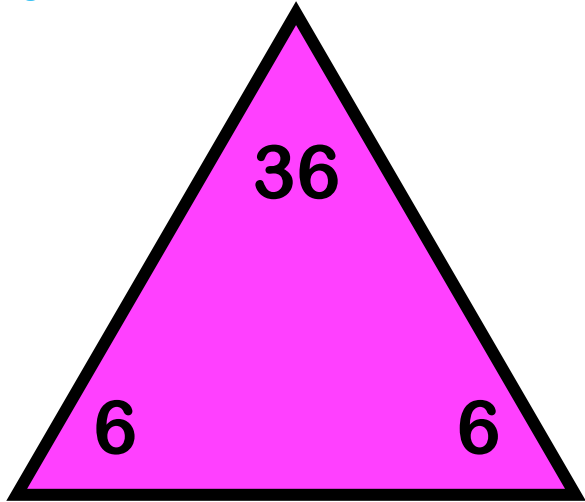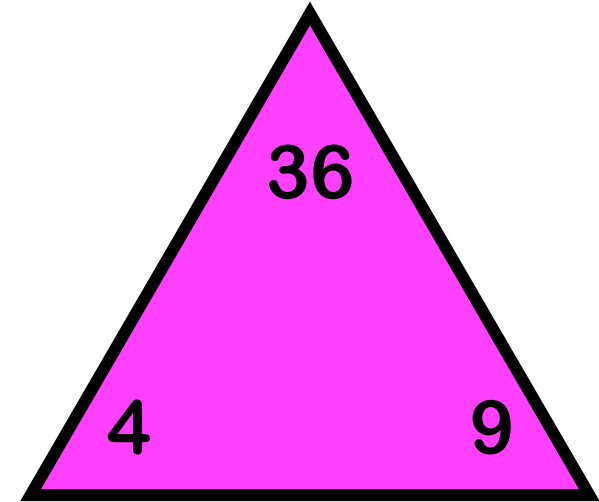**4 groups of 9?**

One quarter of 36?

Look at these patterns for 36.

Try making or drawing your own.

Key factors of 36

36

6   6

Remember these factor triangles for 36!

36

4   9

☐ × ☐ = ☐

☐ ÷ ☐ = ☐

How many multiplications and divisions can you make involving these factors of 36?

☐ × ☐ = ☐

☐ ÷ ☐ = ☐

Fraction skills

32

4   8

36

4   9

36

6   6

32

36

36
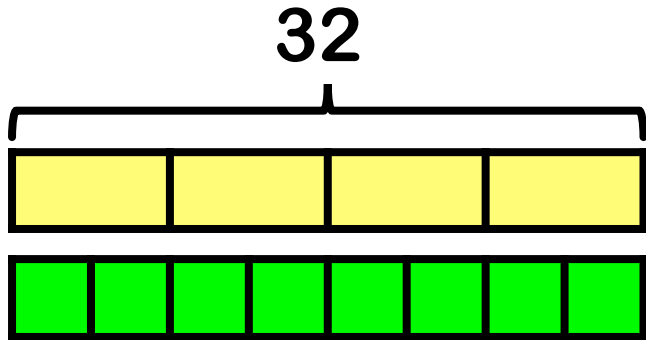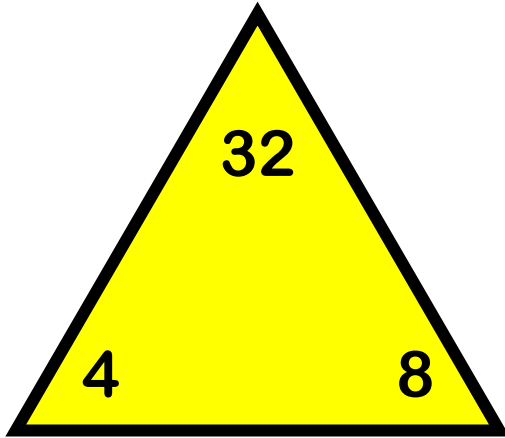
$\frac{1}{4}$ of 32 is ☐

$\frac{1}{8}$ of 32 is ☐
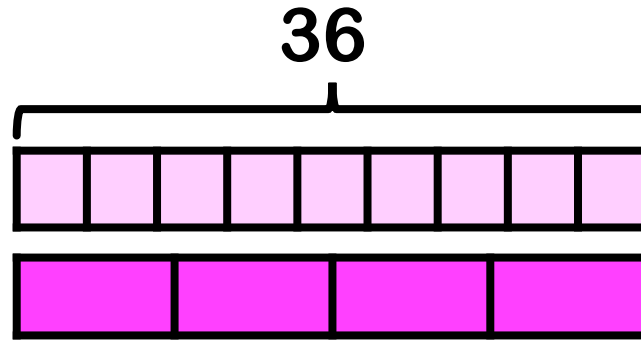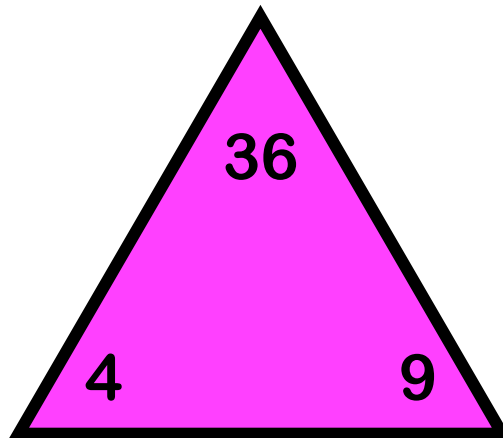
$\frac{1}{\square}$ of 36 is 4
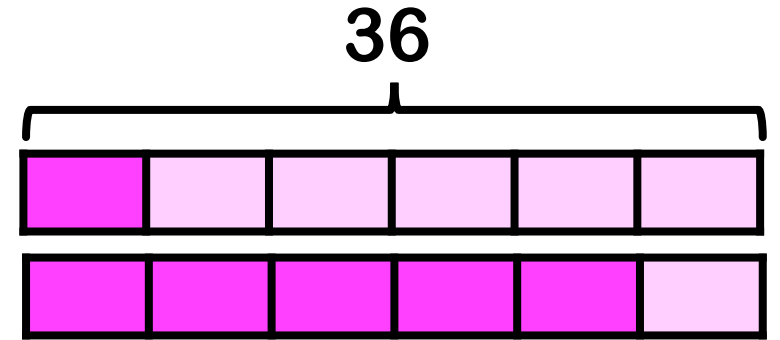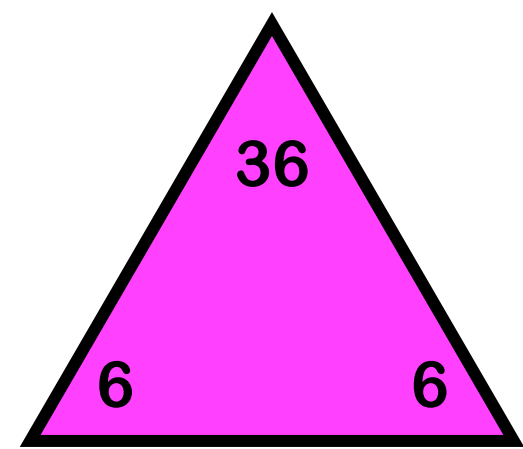
$\frac{1}{\square}$ of 36 is 9

$\frac{1}{6}$ of 36 is ☐

$\frac{5}{6}$ of 36 is ☐

This week we have learned:

32
4   8

36
4   9

36
6   6
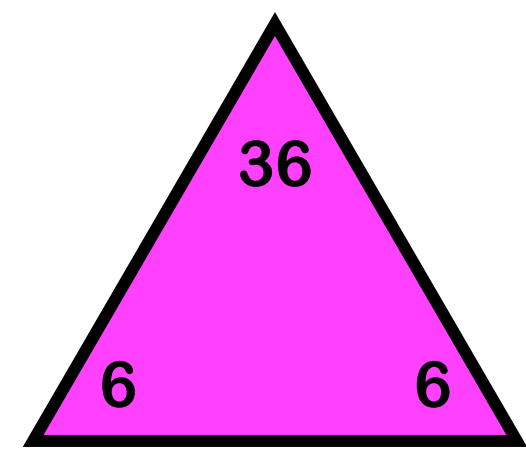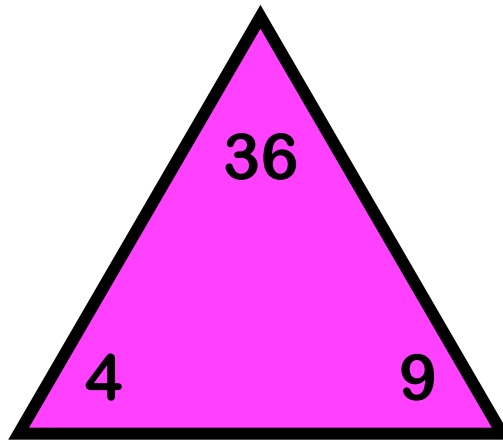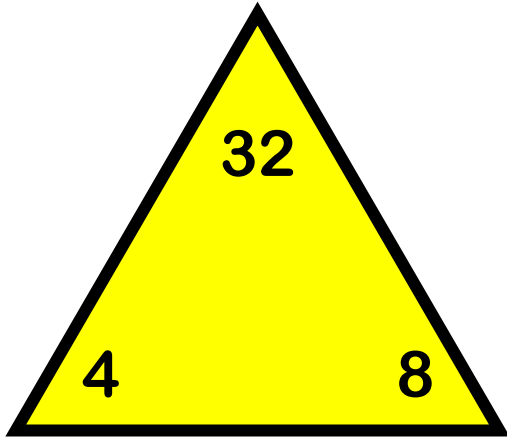
Now I know these factor triangles, I know:
• Times tables
• Divisions
• Fractions!

Well done! See you next week!