

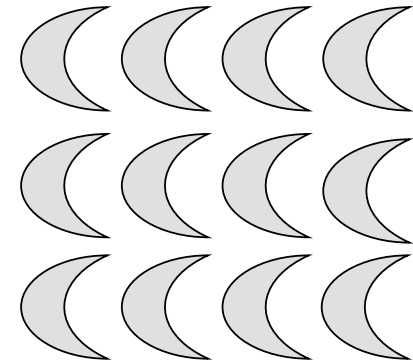
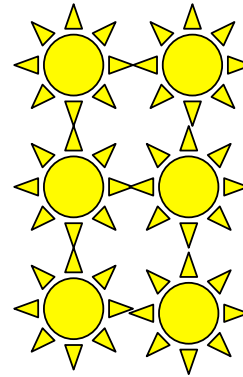
repeated addition

$$11 + 11 + 11 + 11 + 11 = 55$$

4.OA.1



array



4.OA.1



multiple

multiples of 3 are 3, 6, 9...

multiples of 6 are 6, 12, 18...

multiples of 9 are 9, 18, 27...

4.OA.1



comparison

A giraffe is 5 times taller a lion.

A caterpillar is 10 times shorter than a snake.

4.OA.1



equation

$$32 \times 2 = 64$$

$$2 \times 7 = 20 - 6$$

4.OA.1

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multiplicative comparison

4.OA.2

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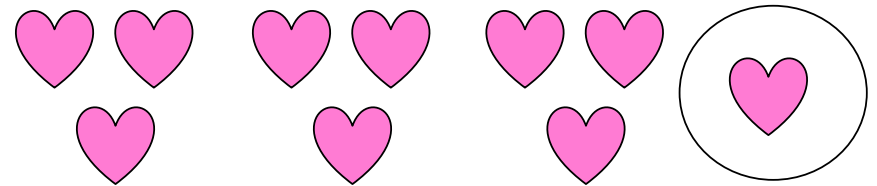
additive comparison

4.OA.2

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remainder

$$10 \div 3 = 3 \text{ r } 1$$



4.OA.3

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estimation

3×7 is about 20

9×9 is about 80

4.OA.3

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rounding

4,873 is rounded to 5,000

2,038 is rounded to 2,000

4.OA.3

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reasonableness

4.OA.3

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factor

The factors of 12 are 1, 12, 2, 6, 3, 4

$$12 = 1 \times 12$$

$$12 = 2 \times 6$$

$$12 = 3 \times 4$$

$$12 \div 1 = 12$$

$$12 \div 2 = 6$$

$$12 \div 3 = 4$$

4.OA.4

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factor pairs

Factor pairs of 16 are
1, 16, 2, 8, 4, 4

Factor pairs of 20 are
1, 20, 2, 10

4.OA.4



prime number

2, 3, 5, 7, 11, 13

4.OA.4



composite number

2, 4, 6, 8, 9, 12...

4.OA.4



multiple

$$6 \times 12 = 72$$

4.OA.4



pattern

repeating pattern

2, 5, 7, 2, 5, 7, 2, 5, 7

changing/growing pattern

1, 6, 11, 16, 21, 26

4.OA.5



4.OA



rule

number	double + 2
3	8
4	10
5	12

4.OA.5



4.OA

