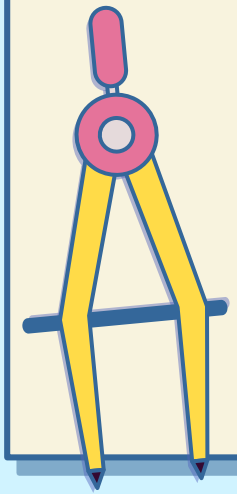
Daily Maths Activities

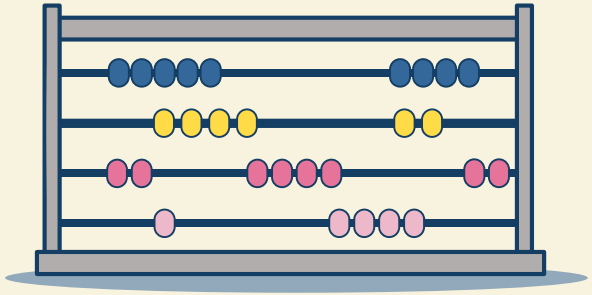
What's next?
Which one doesn't belong?
What's the same? What's different?
Fluency
Always, sometimes, never

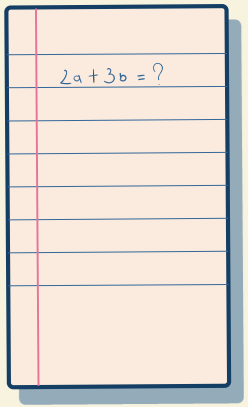
What's what in here?

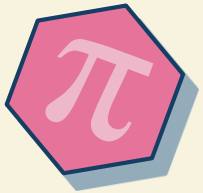


What's next?	**01**	Activities that ask children to think sequentially and create rules/define sequences.
Which one doesn't belong?	**02**	Activities which challenge children's thinking skills to say which of a given set is the odd one out.
What's the same? What's different?	**03**	Actvities which help children to notice similarities and differences in Maths.
Fluency	**04**	Questions which encourage fluency.
Always, sometimes, never	**05**	Activities which help children to think about generalisations in Maths.

Week 1







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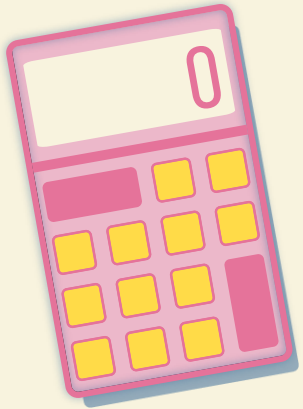
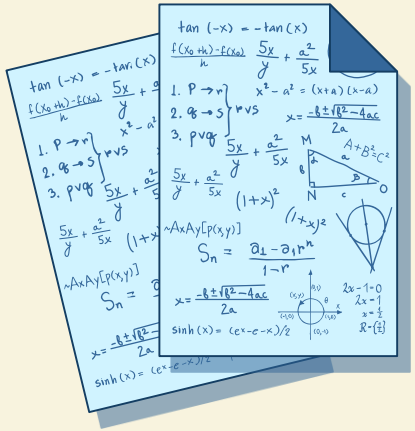
$$\tan(x) = \frac{\sin(x)}{\cos(x)}$$





What's next?

What comes next in these sequences?

1. 10, 20, 30, 40…
2. 50, 45, 40, 35…
3. 7, 14, 21, 28…
4. 3, 2, 1, 0…
5. 1, 4, 9, 16…

Challenge: what's the rule for each sequence?

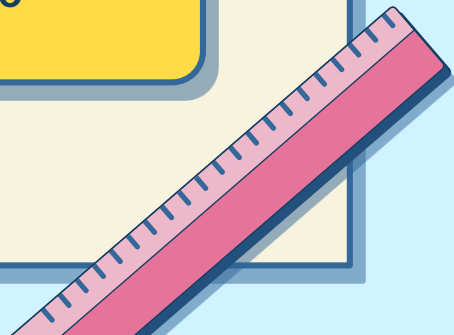
Which one doesn't belong?

10	100
1000	1

What's the same? What's different?

What is the same and what's different about these 6 numbers?

18	15	21
30	36	120



Fluency

Find the total of these pairs:

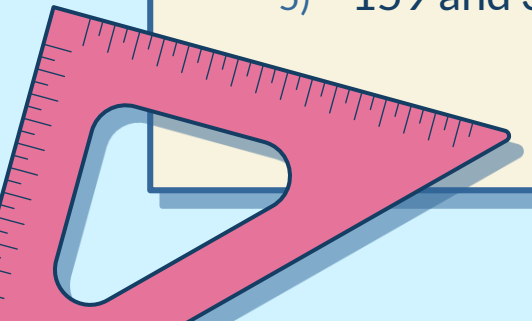
1) 45 and 30
2) 96 and 30
3) 60 and 30
4) 102 and 30
5) 159 and 30

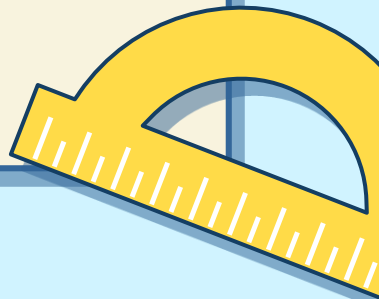
Find the difference between these pairs:

1) 98 and 12
2) 58 and 12
3) 68 and 12
4) 148 and 12
5) 198 and 12

Find the product of these pairs:

1) 3 and 12
2) 6 and 12
3) 12 and 4
4) 12 and 8





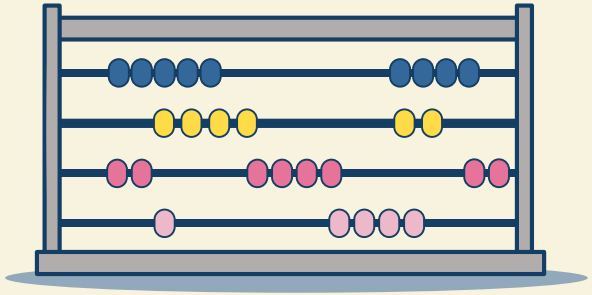
Always, sometimes, never

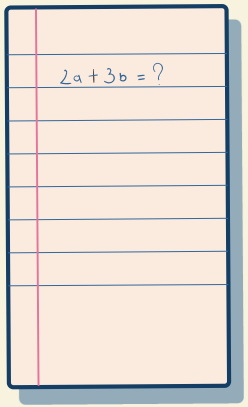
1. Multiples of 5 are even.

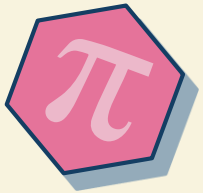
2. Multiples of 3 are multiples of 6.

3. Multiples of 10 are even.

Week 2

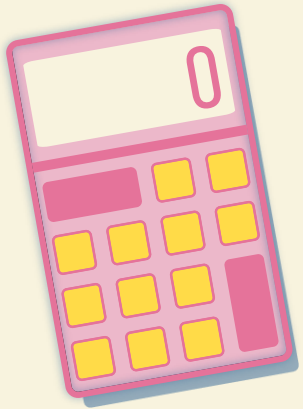


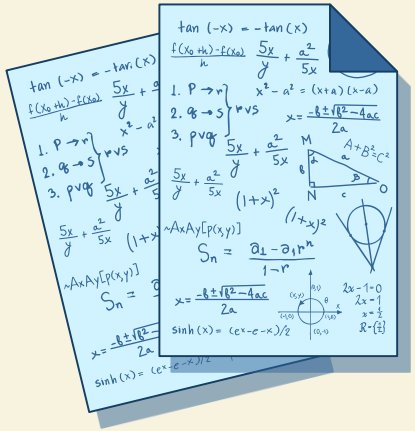




$$A = \frac{\sqrt{25 + 10 \cdot \sqrt{5}}}{4} a^2$$

$$\tan(x) = \frac{\sin(x)}{\cos(x)}$$





What's next?

What comes next in these sequences?

1. Triangle, square, pentagon, hexagon…
2. A, E, I, O…
3. 50, 40, 30, 20…
4. Z, Y, X, W…

Challenge: what's the rule for each sequence?

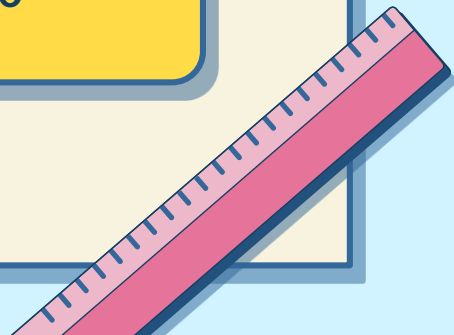
Which one doesn't belong?

7	5
9	2

What's the same? What's different?

What is the same and what's different about these 6 numbers?

10	15	1000
30	25	120



Fluency

Find the total of these pairs:

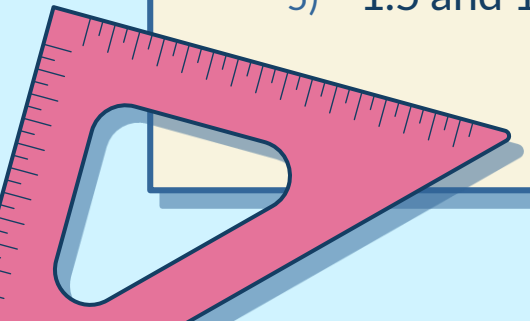
1) 1.5 and 3
2) 1.5 and 6
3) 1.5 and 4
4) 1.5 and 8
5) 1.5 and 16

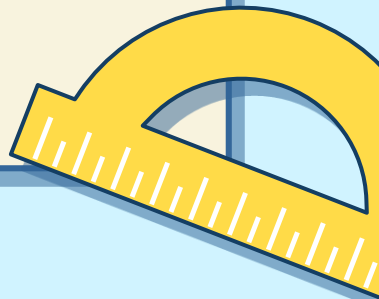
Find the difference between these pairs:

1) 150 and 11
2) 140 and 11
3) 130 and 11
4) 110 and 11
5) 100 and 11

Find the product of these pairs:

1) 11 and 3
2) 11 and 6
3) 11 and 12
4) 11 and 24
5) 11 and 240





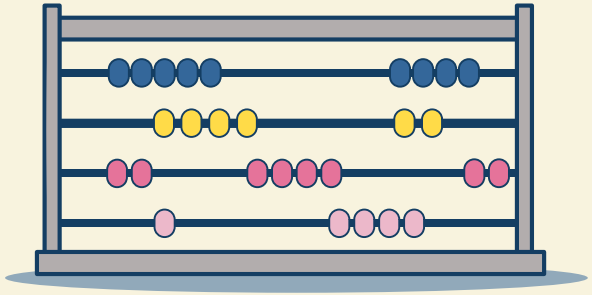
Always, sometimes, never

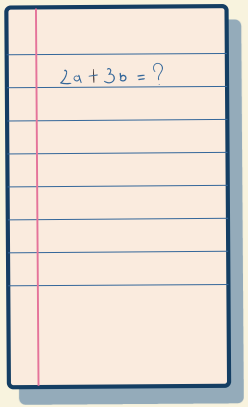
1. Squares have 4 angles.

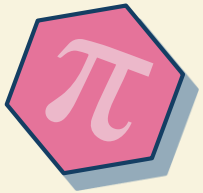
2. A shape must have more than one right angle.

3. Pentagons have 6 sides.

Week 3







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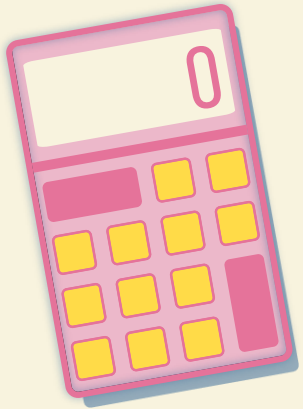
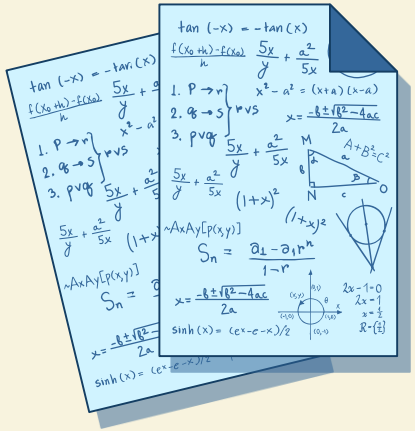




What's next?

What comes next in these sequences?

1. 1.5, 3, 4.5, 6…
2. 9, 8.8, 8.6, 8.4…
3. 24, 12, 6, 3…
4. 60, 40, 20, 0…
5. 1, 3, 5, 7…

Challenge: what's the rule for each sequence?

Which one doesn't belong?

37	107
17	27

What's the same? What's different?

What is the same and what's different about these 6 shapes?

square	pentagon	hexagon
rectangle	octagon	triangle

Fluency

Find the total of these pairs:

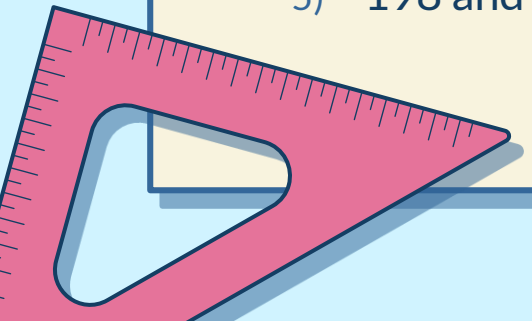
1) 45 and 9
2) 58 and 9
3) 31 and 9
4) 106 and 9
5) 198 and 9

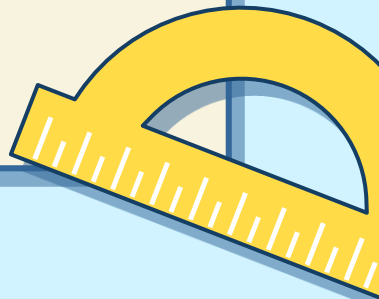
Find the difference between these pairs:

1) 98 and 19
2) 58 and 19
3) 68 and 19
4) 148 and 19
5) 198 and 19

Find the product of these pairs:

1) 8 and 3
2) 8 and 0.3
3) 8 and 30
4) 8 and 300
5) 0.8 and 3





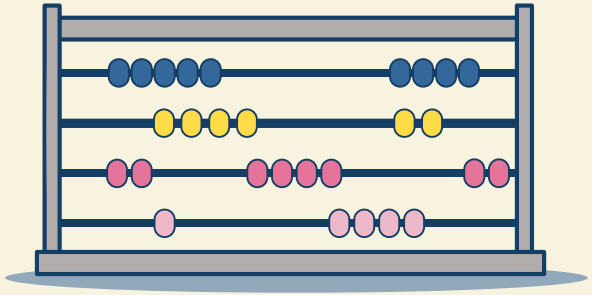
Always, sometimes, never

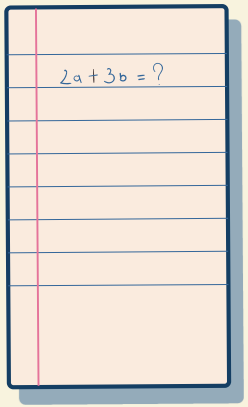
1. The sum of 3 numbers is odd.

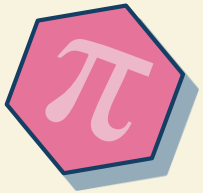
2. The product of 2 numbers is even.

3. The sum of even numbers is even.

Week 4







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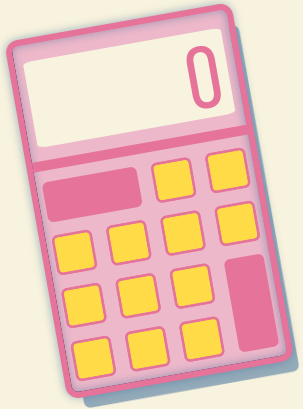
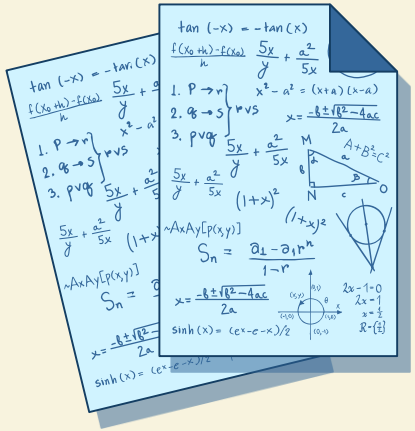




What's next?

What comes next in these sequences?

1. 99, 88, 77, 66…
2. 9.8, 8.8, 7.8, 6.8…
3. 3.1, 4.2, 5.3, 6.4…
4. 31, 42, 53, 64…
5. 1, 1, 2, 3, 5…

Challenge: what's the rule for each sequence?

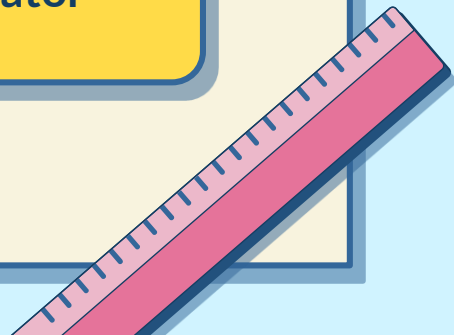
Which one doesn't belong?

kg	cm
km	ml

What's the same? What's different?

What is the same and what's different about these 6 numbers?

pencil	ruler	book
compass	protractor	calculator



Fluency

Find the total of these pairs:

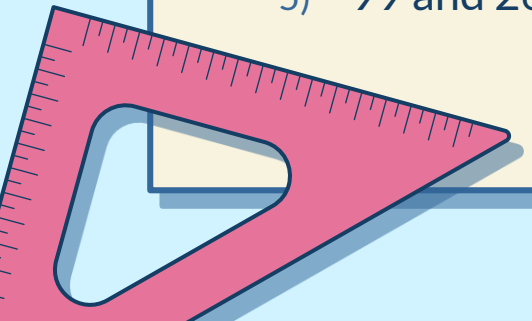
1) 99 and 135
2) 99 and 145
3) 99 and 245
4) 99 and 255
5) 99 and 265

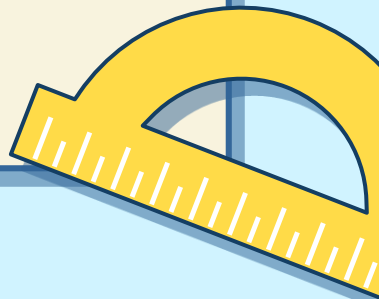
Find the difference between these pairs:

1) 100 and 49
2) 100 and 39
3) 100 and 19
4) 100 and 29
5) 100 and 89

Find the product of these pairs:

1) 3 and 7
2) 30 and 7
3) 3 and 70
4) 300 and 7
5) 0.3 and 7





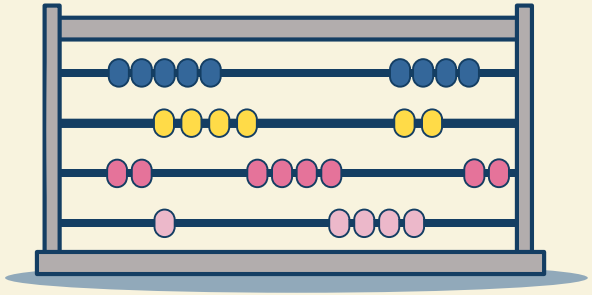
Always, sometimes, never

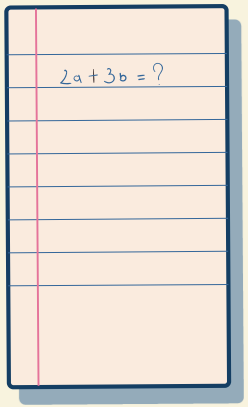
1. Even numbers divide by 4.

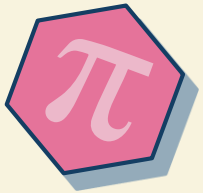
2. Odd numbers are prime numbers.

3. Even numbers will not divide by 3.

Week 5







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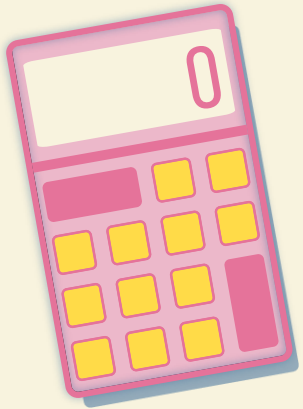
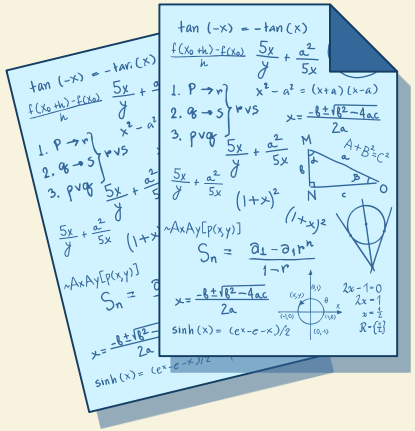




What's next?

What comes next in these sequences?

1. One, four, seven, ten…
2. Five, nine, fourteen, twenty…
3. 1, 2, 4, 8…
4. 9.8, 9.5, 9.2, 8.9…
5. 4, 8, 12, 16...

Challenge: what's the rule for each sequence?

Which one doesn't belong?

21	15
12	9

What's the same? What's different?

What is the same and what's different about these 6 numbers?

five	fifty	500
0.5	55	five thousand

Fluency

Find the total of these pairs:

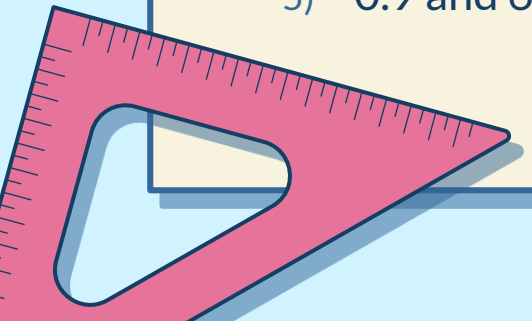
1) 0.9 and 1.2
2) 0.9 and 2.2
3) 0.9 and 3.2
4) 0.9 and 4.2
5) 0.9 and 6.2

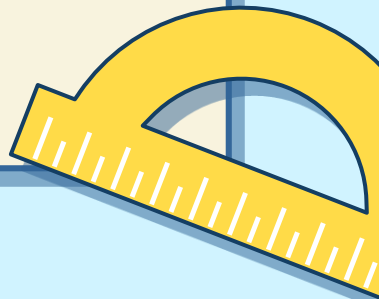
Find the difference between these pairs:

1) 101 and 17
2) 111 and 17
3) 151 and 17
4) 201 and 17
5) 211 and 17

Find the product of these pairs:

1) 4 and 8
2) 8 and 0.4
3) 0.8 and 4
4) 40 and 80
5) 800 and 4





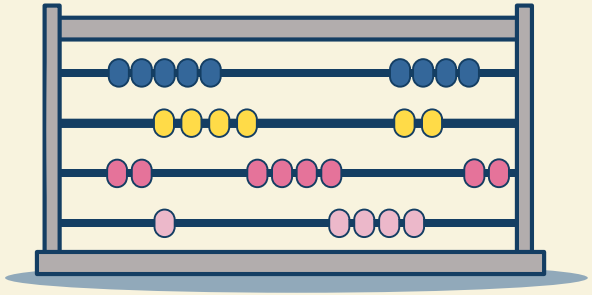
Always, sometimes, never

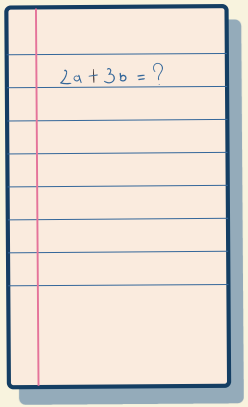
1. When comparing fractions, bigger denominators means smaller fraction.

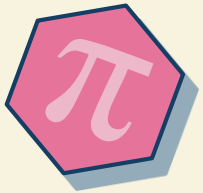
2. When adding fractions, add the numerator and add the denominator to find the total.

3. When you add fractions, you change the denominator

Week 6







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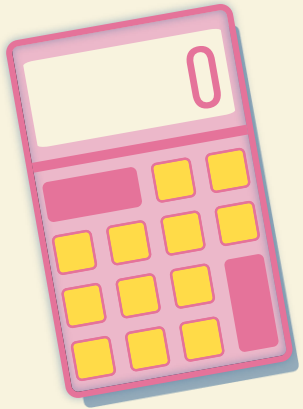
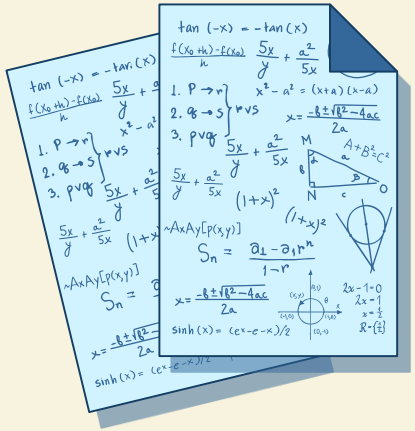




What's next?

What comes next in these sequences?

1. 1025, 1125, 1225, 1325…
2. 1195, 1185, 1175, 1165…
3. 3031, 3021, 3011, 3001…
4. 2987, 3087, 3187, 3287…
5. 10320, 11320, 12320, 13320…

Challenge: what's the rule for each sequence?

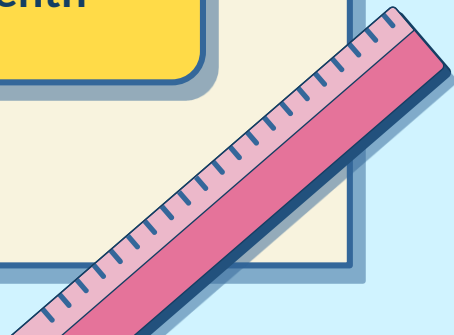
Which one doesn't belong?

1/2	1/3
1/4	1/8

What's the same? What's different?

What is the same and what's different about these 6 values?

One third	One quarter	One fifth
Two eights	Two tenths	One tenth



Fluency

Find the total of these pairs:

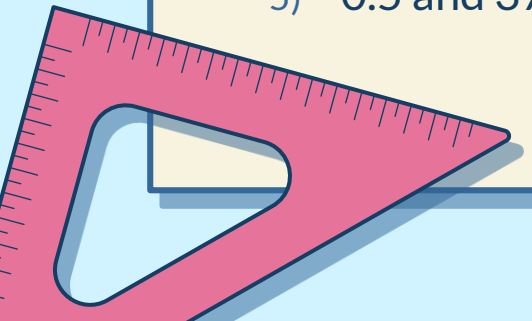
1) 0.5 and 0.6
2) 0.5 and 3.6
3) 0.5 and 17.6
4) 0.5 and 21.6
5) 0.5 and 37.7

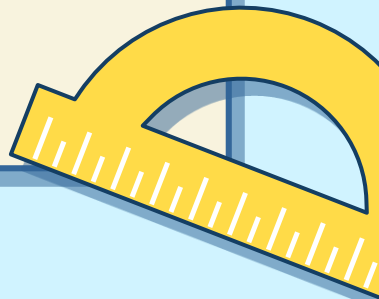
Find the difference between these pairs:

1) 98 and 18
2) 58 and 18
3) 68 and 18
4) 148 and 18
5) 198 and 18

Find the product of these pairs:

1) 1 and 15
2) 10 and 15
3) 10 and 1.5
4) 0.1 and 15
5) 0.1 and 1.5





Always, sometimes, never

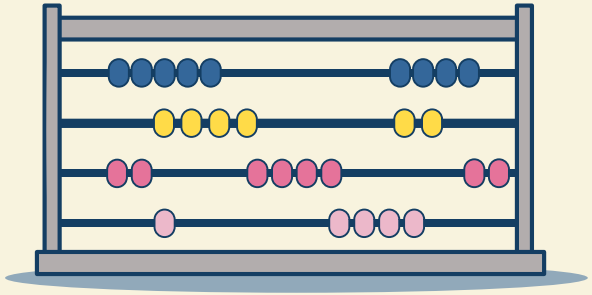
1. The sum of 2 consecutive numbers is even.

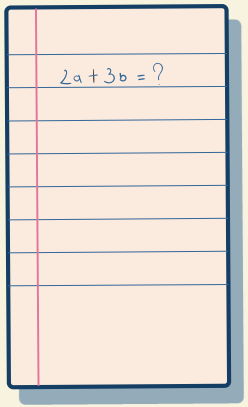
2. Consecutive numbers have more than one common factor.

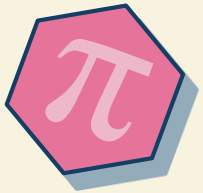
3. Consecutive numbers have no common factors.

Math Icon Pack

Alternative resources







$$A = \frac{\sqrt{25 + 10 \cdot \sqrt{5}}}{4} a^2$$

$$\tan(x) = \frac{\sin(x)}{\cos(x)}$$