STARTER QUESTIONS
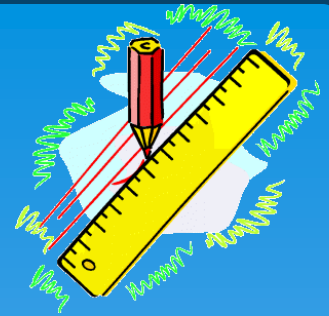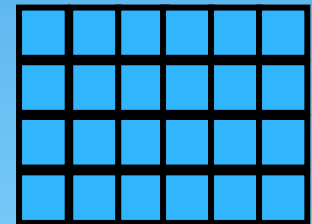
1. Find the perimeter of the shape
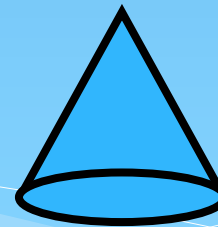
2. Calculate 30% of 900

3. Find the area of the rectangle 6cm in length by 4 cm wide.

4. Name the shape.

3cm

Learning Objective

Revision:

Column addition including adding decimals.

Column subtraction including subtracting decimals.

Adding Numbers

H	T	U			H	T	U			H	T	U	
2	4	6			6	3	2			4	2	0	
+ 1	2	7	Reveal Answer	+		5	6	Reveal Answer	+	2	3	8	Reveal Answer

H	T	U			H	T	U			H	T	U	
5	5	9			3	4	6				7	4	
+ 1	4	1		+	9	0	2		+	5	2	3	
			Reveal Answer					Reveal Answer					Reveal Answer

Adding Decimals

T	U	1/10
3	0 • 7	
+ 4	2 • 9	

Reveal Answer

T	U	1/10
2	4 • 9	
+ 7	2 • 7	

Reveal Answer

T	U	1/10
3	7 • 3	
+ 1	1 • 7	

Reveal Answer

T	U	1/10
3	0	9 • 5
+ 7	0 • 2	

Reveal Answer

T	U	1/10
2	9 • 6	
+ 3	0 • 9	

Reveal Answer

T	U	1/10
7	2 • 7	
+ 2	5 • 3	

Reveal Answer

Subtracting Numbers

H	T	U
3	7	2
- 2	1	5

Reveal Answer

H	T	U
5	3	8
- 2	5	2

Reveal Answer

H	T	U
5	3	5
- 3	3	9

Reveal Answer

H	T	U
6	0	9
- 2	0	1

Reveal Answer

H	T	U
2	5	5
- 1	2	8

Reveal Answer

H	T	U
9	7	7
- 4	2	7

Reveal Answer

www.visuallessons.com

Subtracting Decimals

	T	U	1/10
	8	7 • 7
-	6	2 • 6

Reveal Answer

	T	U	1/10
	4	4 • 7
-	3	5 • 7

Reveal Answer

	T	U	1/10
	3	2 • 1
-	2	1 • 9

Reveal Answer

	H	T	1/10
	5	2 • 7
-	4	3 • 1

	T	U	1/10
	3	9 • 4
-	1	0 • 6

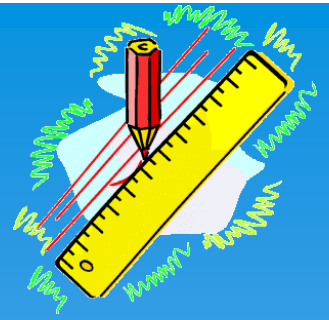|	T	U	1/10
	7	7 • 5
-	3	3 • 3

Reveal Answer

Reveal Answer

Reveal Answer

STARTER QUESTIONS

Q1.   Calculate 75% of £200

Q2.   Round to 1 decimal place 2.354.

Q3.   How many minutes in 3hours

Q4.   The answer to the question is 180. What is the question.

Learning Objective

Revision:

Multiply two digit numbers

Multiply decimal numbers.

Multiplying Numbers

H	T	U			H	T	U			H	T	U	
3	7	2				3	8			4	0	5	
x		5	Reveal Answer	x			9	Reveal Answer	x			9	Reveal Answer

H	T	U			H	T	U			H	T	U	
4	1	4				6	2				7	7	
x		5		x			7		x			7	
			Reveal Answer					Reveal Answer					Reveal Answer

Multiplying 2 Digit Numbers: Grid Method

3   5   x   3   4   6   1   x   2   3

		30	5				60	1
-----	----	-----	-----		-----	----	-----	-----
x	30					20		
	4					3		

Reveal Answer

Reveal Answer

Multiplying 2 Digit Numbers: Grid Method

2 3 x 6 6   3 5 x 2 9

	20	3
x	60	
6		

	30	5
20		
9		

Reveal Answer

Reveal Answer

Multiplying Decimal Numbers: Grid Method

4.6   x   36

	4	0.6
x 30	30		
6		

18   x   3.5

	10	8
3		
0.5		

Reveal Answer

Reveal Answer

STARTER QUESTIONS
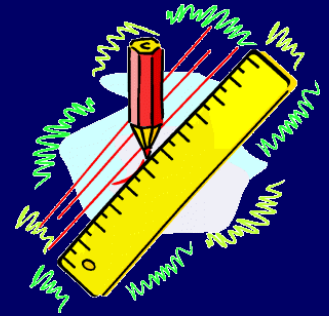
1. Calculate 14 × 100

2. What kind of angle is this
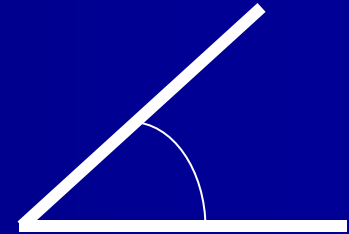
3. 56.98 ÷ 10

4. Name the angle that is between 180° and 360°

Learning Objective

Revision:

Use bus stop method to divide including dividing with decimal remainders.

Dividing Numbers

$4\ 3\ 4 \div 7$ $6\ 1\ 5 \div 5$

Reveal Answer   **Reveal Answer**

$7\ \overline{)\ 4\ 3\ 4}$ $5\ \overline{)\ 6\ 1\ 5}$

$4\ 2\ 6 \div 3$ $6\ 5\ 4 \div 6$

Reveal Answer   **Reveal Answer**

$3\ \overline{)\ 4\ 2\ 6}$ $6\ \overline{)\ 6\ 5\ 6}$

Dividing Numbers

$$1 \quad 6 \quad 4 \quad \div \quad 5 \qquad\qquad 3 \quad 8 \quad 5 \quad \div \quad 4$$

$$5 \,|\, \overline{1 \quad 6 \quad 4} \qquad\qquad 4 \,|\, \overline{3 \quad 8 \quad 5}$$

$$3 \quad 5 \quad 5 \quad \div \quad 9 \qquad\qquad 2 \quad 1 \quad 7 \quad \div \quad 5$$

$$9 \,|\, \overline{3 \quad 5 \quad 1} \qquad\qquad 5 \,|\, \overline{2 \quad 1 \quad 7}$$
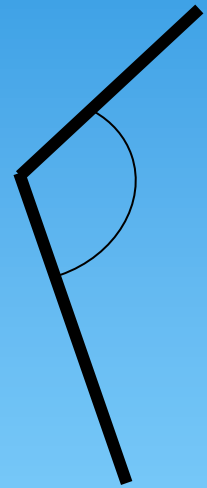
CHUNKING

Now try these...
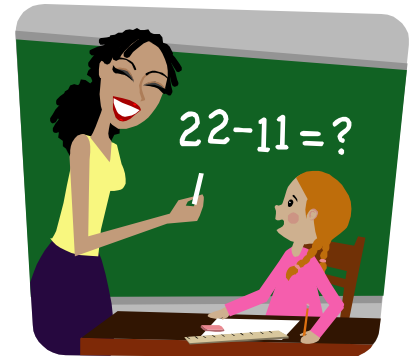
STARTER QUESTIONS
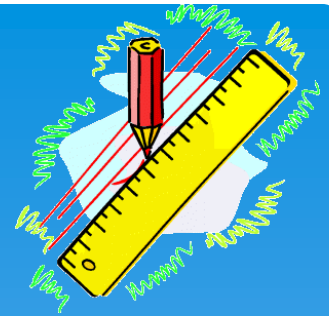
1. Calculate 41.9 x 100

2. What kind of angle is this

3. 1.268 ÷ 100

4. Name the angle that is between 0° and 90°

Learning Objective

Revision:
Find fractions of quantities.

Finding Fractions of Numbers

$$\frac{1}{3}$$

1 ← This is the numerator

3 ← This is the denominator

To find a fraction of a number you can do this:

1) Divide the whole number by the denominator.

2) Multiply this answer by the numerator.
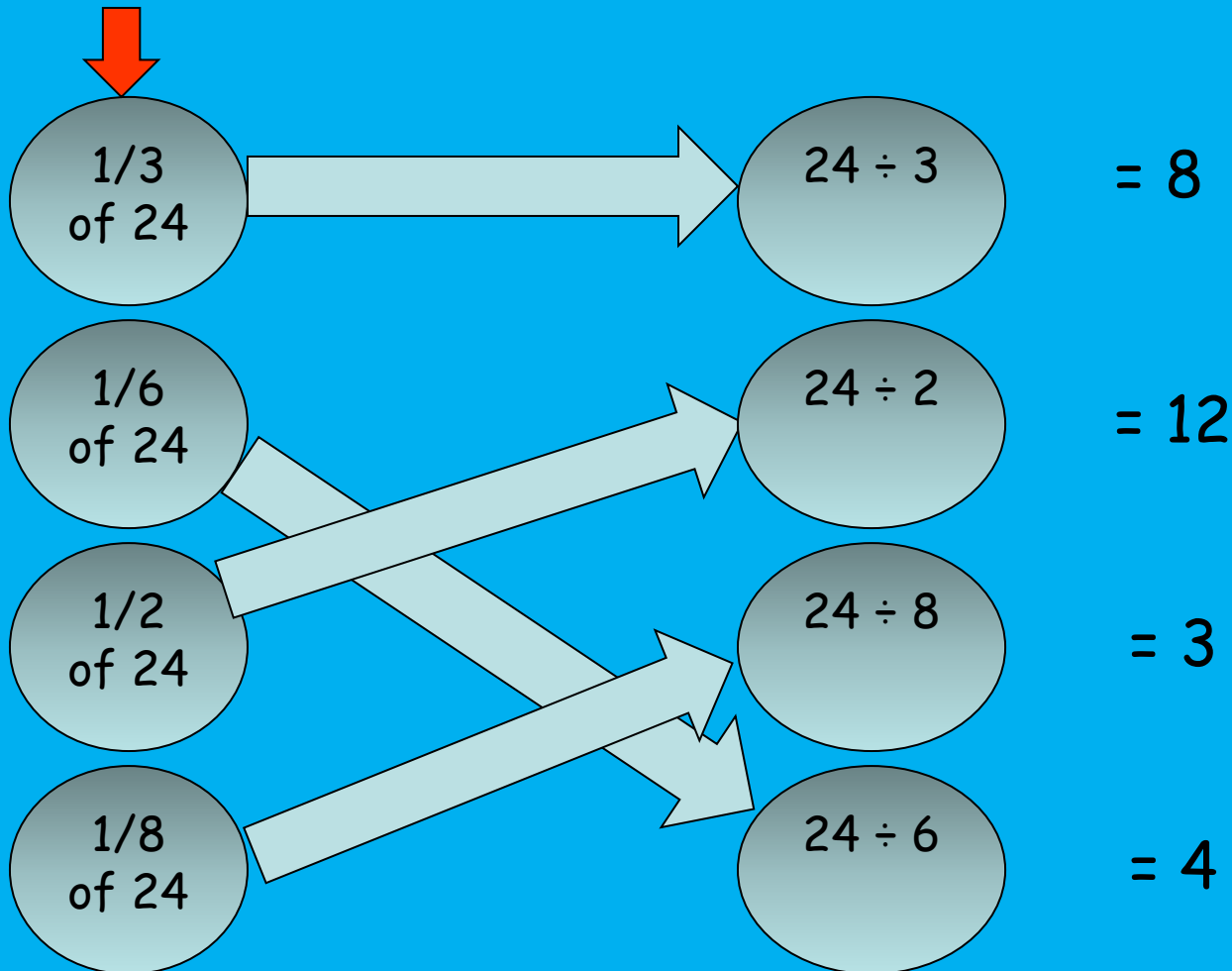
$$\frac{1}{3} \text{ of } 15$$

1) $15 \div 3 = 5$

2) $5 \times 1 = 5$

$= 5$

CLICK!

Linking Fractions and Division

Fractions and dividing are very similar. The denominator is what you divide by. Click on the fractions to match them to the division questions:

1/3 of 24	24 ÷ 3 = 8
1/6 of 24	24 ÷ 2 = 12
1/2 of 24	24 ÷ 8 = 3
1/8 of 24	24 ÷ 6 = 4

Finding More Fractions of Numbers

Divide the whole number by the denominator

Multiply this answer by the numerator.

Answer

2/3 of 21

2 Reveal Answer 7

7 Reveal Answer 4

Reveal Answer

3/5 of 20

2 Reveal Answer 4

4 Reveal Answer 2

Reveal Answer

3/4 of 16

1 Reveal Answer 4

4 Reveal Answer 2

Reveal Answer

Remember:
- ✓ Divide the whole number by the denominator.
- ✓ Multiply this answer by the numerator.

CLICK!

www.visuallessons.com

Finding More Fractions of Numbers

Divide the whole number by the denominator

Multiply this answer by the numerator.

Answer

2/6 of 30

3 Reveal Answer 5

5 Reveal Answer 0

Reveal Answer

3/10 of 50

50 Reveal Answer 5

5 Reveal Answer 5

Reveal Answer

2/3 of 600

600 Reveal Answer 200

200 Reveal Answer 400

Reveal Answer

Remember:
- ✓ Divide the whole number by the denominator.
- ✓ Multiply this answer by the numerator.

CLICK!

www.visuallessons.com

Finding Fractions of Numbers

Click on the question to reveal the answer

¾ of 40	¼ of 80	3/20 of 80
7/10 of 30	2/5 of 25	5/9 of 18
1/3 of 15	4/6 of 54	3/8 of 24
4/5 of 50	2/7 of 28	5/6 of 42

Using a Calculator to Find Fractions of Numbers

Click on the question to reveal the answer

¾ of 50

¼ of 90

3/20 of 360

2/5 of 315

6/7 of 147

5/9 of 351

1/3 of 189

2/6 of 546

3/8 of 152

STARTER QUESTIONS
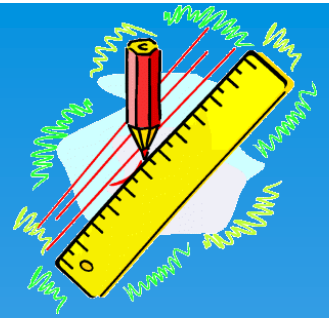
Q1.   Convert to 24hr clock   8.15am   10.02pm

Q2.   Round to 1 decimal place 103.525

Q3.   How many minutes in 6 hours

Q4.   Find the time difference between
        5.12am and 2.34pm

Learning Objective

Revision:

Find percentages of numbers.

Finding Percentages of Numbers

30% of 40

1) Find 10% first. This can be done by dividing the number by 10

   10% of 40 = 4

2) If 10% = 4, then 30% = 12
   (there are 3 lots of 10% in 30%)

30% of 40 = 12

This box represents 40

100% = 40
90% = 36
80% = 32
70% = 28
60% = 24
50% = 20
40% = 16
30% =12
20% = 8
10% = 4

CLICK!

Finding Percentages of Numbers

Find 10% first

Multiply this by how many lots of 10% there are

Answer

30% of 60

60 [Reveal Answer] 6

6 [Reveal Answer] 8

[Reveal Answer]

60% of 20

20 [Reveal Answer] 2

2 [Reveal Answer] 2

[Reveal Answer]

20% of 200

200 [Reveal Answer] 20

20 [Reveal Answer] 40

[Reveal Answer]

Remember:
✓ To find 10%, first divide the whole number by 10.

CLICK!

www.visuallessons.com

Finding Smaller Percentages of Numbers

6% of 300

1) Find 1% first. This can be done by dividing the number by 100

   1% of 300 = 3

2) If 1% = 3, then 6% = 18
   (there are 6 lots of 1% in 6%)

6% of 300 = 18

This box represents 300.
Each square is worth 1%

3	6	9	12	15	18				

CLICK!

Finding Percentages of Numbers

Find 1% first — Multiply this by how many lots of 1% there are — Answer

6% of 400

400 [Reveal Answer] = 4 — 4 [Reveal Answer] 4 — [Reveal Answer]

15% of 80

80 [Reveal Answer] 0.8 — 0.8 [Reveal Answer] 12 — [Reveal Answer]

7% of 500

500 [Reveal Answer] = 5 — 5 [Reveal Answer] 5 — [Reveal Answer]

Remember:
✓ To find 1%, first divide the whole number by 100.

CLICK!

Finding Percentages of Numbers

Click on the question to reveal the answer

20% of 40	99% of 200	3% of 1,000
20% of 30	30% of 50	5% of 200
2% of 500	40% of 80	12% of 600
70% of 60	60% of 20	2% of 20,000

Using a Calculator to Find Percentages of Numbers

Click on the question to reveal the answer

20% of 450	97% of 170	6% of 2,500
18% of 820	44% of 560	15% of 450
23% of 4,400	8% of 600	30% of 3,370

www.visuallessons.com