NUMBER 3

How many of these can you read correctly?

23 402

0.003

7.674

3 890 201

1 000 000

605 341

Write down these numbers in digits:
a) Two hundred and 6
b) Three thousand and seventeen
c) Two million
d) one hundred and forty two thousand
e) 7 tenths

Write down these numbers in words:
a) 408
b) 10 004
c) 500 000
d) 0.16
e) 23 000 000

4015.328

Multiplying and dividing by 10,100,1000....

Complete the pattern:

22 x = 22

22 x = 220

22 x = 2200

22 x = 22000

9.21 101 4.2

45 76 1005

204 6.7 x10

9.21 101 4.2

45 76 1005

204 6.7 x100

Dividing by 10,100,1000

$22 \div 1000 = 0.022$

$22 \div 100 = 0.22$

$22 \div 10 = 2.2$

$22 \div 1 = 22$

$9.21 \div 10 = 0.921$

$101 \div 10 = 10.1$

$4.2 \div 10 = 0.42$

$45 \div 10 = 4.5$

$76 \div 10 = 7.6$

$1005 \div 10 = 100.5$

$204 \div 10 = 20.4$

$6.7 \div 10 = 0.67$

$12.7 \div 100 = 0.127$

$101 \div 100 = 1.01$

$0.2 \div 100 = 0.002$

$45 \div 100 = 0.45$

$76 \div 100 = 0.76$

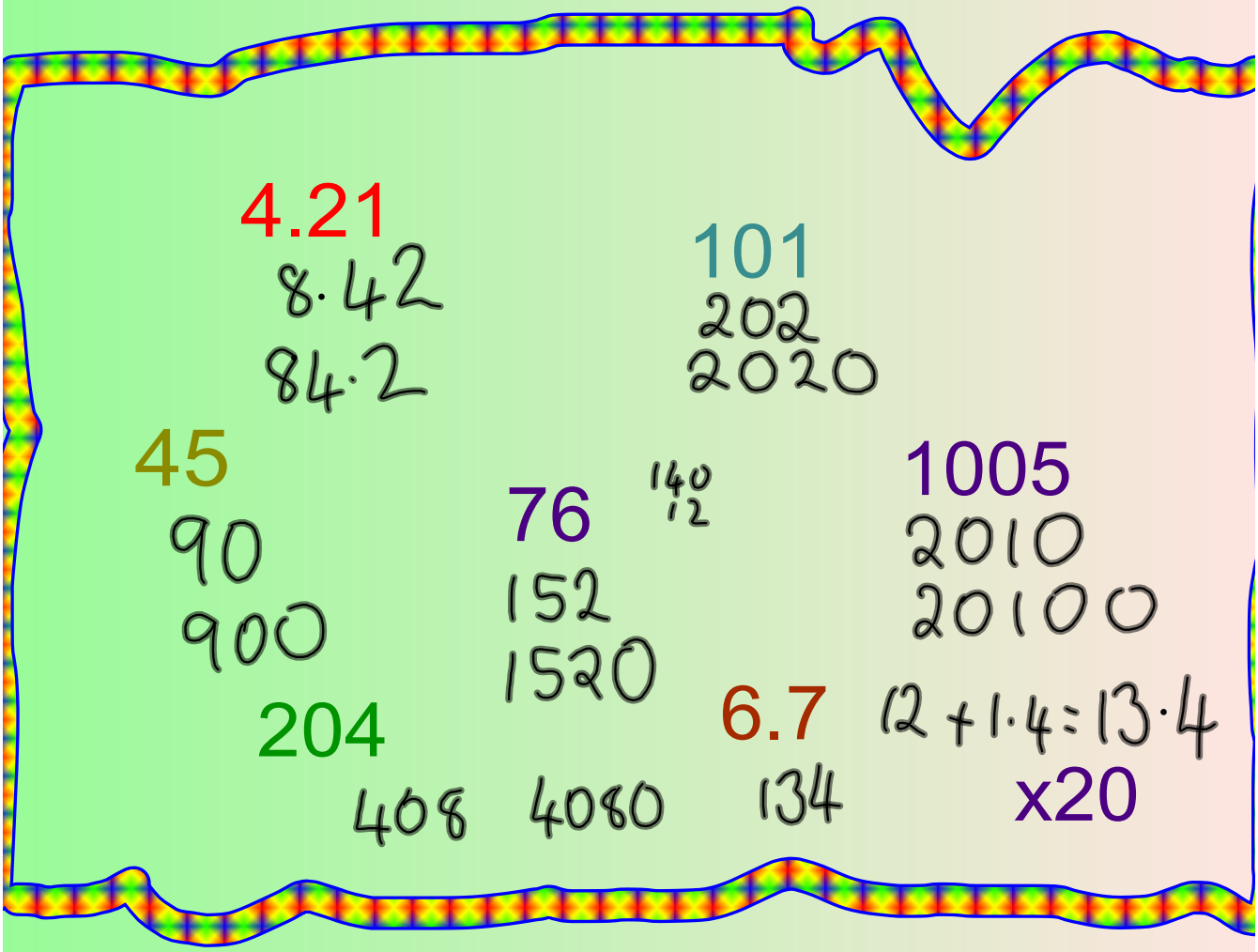
$1005 \div 100 = 10.05$

$204 \div 100 = 2.04$

$6.7 \div 100 = 0.067$

page 352 ex 15 and 16

Multiplying by 20,200,2000....



page 348 ex 8,9,10

Division

Easy

$3\overline{)3630}$ 1210

$4\overline{)4080}$ 1020

$2\overline{)84602}$ 43301

$3\overline{)6030}$ 2010

8480 ÷ 4

$2\overline{)860642}$ 430321

$4\overline{)8480}$ 2020

Medium

$3\overline{)3120}$ 1040

$4\overline{)412}$ 103

412 ÷ 4

$2\overline{)34502}$ 17251

56410 ÷ 2

$3\overline{)4506}$ 1502

$4\overline{)960}$ 240

$2\overline{)56410}$ 28205

Hard

$3\overline{)1026}$ 342

$4\overline{)6100}$ 1525

$2\overline{)57310}$ 28655

$3\overline{)2407}$ 802 r 1

900 ÷ 4

$2\overline{)35986}$ 17993

$4\overline{)900}$ 225

Worksheet for Tuesday

$6\overline{)30}$ 5

Try these:

1) 453÷3
2) 456÷6
3) 721÷7
4) 4675÷5
5) 9297 ÷9

Ext

6) 9208÷8
7) 1287÷9
8) 8344÷7

Dividing by 20.

Divide by 2 and by 10.

240 → 120 → 12

240 ÷ 20 = 12

460 → 230 → 23

460 ÷ 20 = 23

68 → 34 → 3·4

300 → 150 → 15

900 → 450 → 45

84 → 42 → 4·2

500 → 250 → 25

510 → 255 → 25·5

Divide by 30

$$3\overline{)300} = 100$$

a) 300 ÷ 30 = 10

b) 360 ÷ 30 = 12

$$3\overline{)360} = 120$$

c) 120 ÷ 30 = 4

d) 420 ÷ 30 = 14

e) 510 ÷ 30 = 17

Try these:

1) 450 ÷ 90 = 5

$$9\overline{)450} = 50$$

2) 7070 ÷ 70 = 101

3) 2460 ÷ 60 = 41

4) 3515 ÷ 50 = 70·3

$$5\overline{)3515} = 703$$

5) 8160 ÷ 800 = 10·2

Ext:

6) 34120 ÷ 400 = 85·30

7) 560 ÷ 800

8) 81620 ÷ 700

Work out as many of these as you can.

$44 \times 10 = 440$

$48 \div 100 = 0.48$

$45 \div 100 = 0.45$

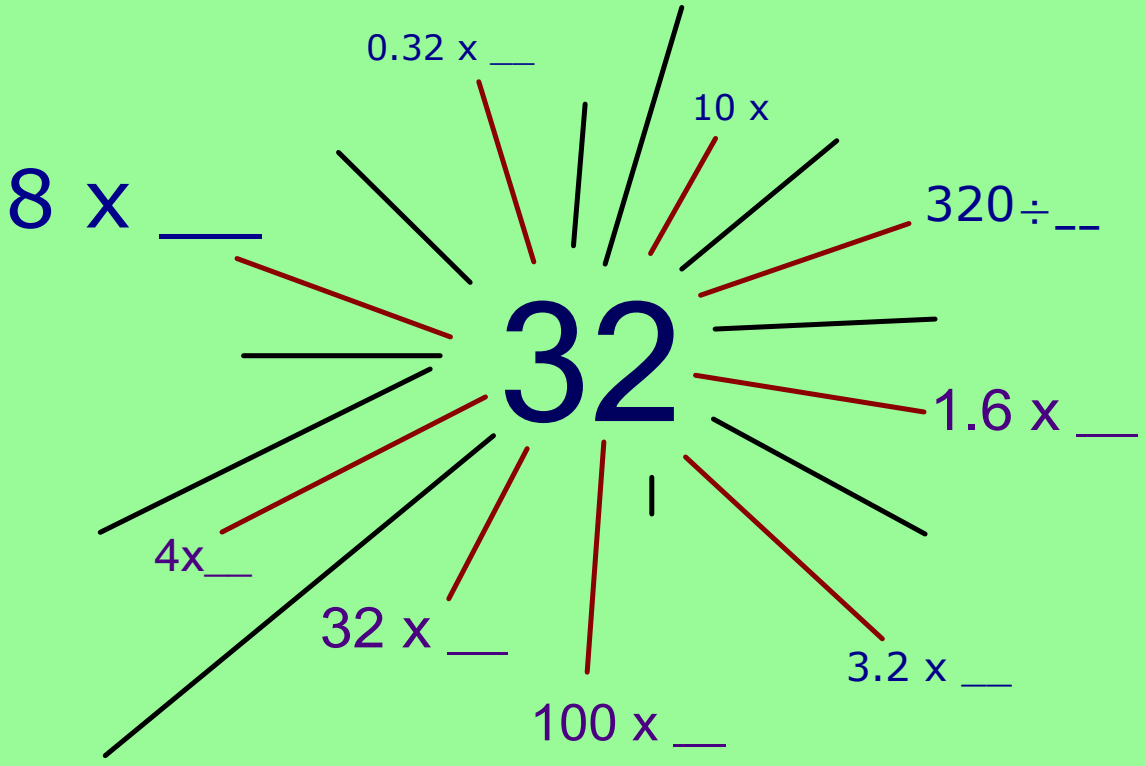
$0.3 \times 100 = 30$

$7 \div 100 = 0.07$

$36 \times 200 = 7200$

$44 \times 1000 = 44000$

Complete the sums and add 10 of your own (multiplication or division)



Ordering decimals

Holly Jake Jess Max Nicolina

Andrew Ann Annabelle Anne

Ordering decimals

0.09999 0.5 0.59 0.595 5.5

Green
0·02
0·12
0·202
0·29

pink
0·82
2·099
2·8
2·82

yellow
0·09
0·79
0·9
0·99

purple
1·01
1·011
1·101
1·11

bbc

Adding and Subtracting Decimals

Keep the decimal points underneath each other!

2.34 + 83.1

52.67- 3.083

1. 5.64 + 2.431

2. 56.8- 32.71 = 24.09

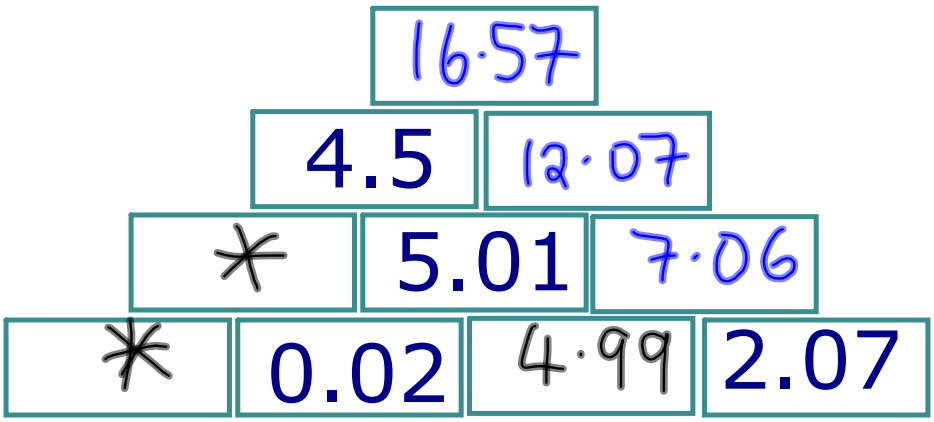
3. 120+ 3.5601 = 123.5601

4. 12 - 4.5 = 7.5

5. 54.97 + 23.865 → This one is hard! Take it slowly!

6. 12.01 - 7.945

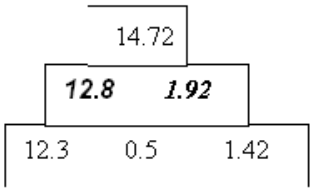
Ext

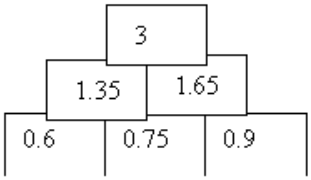


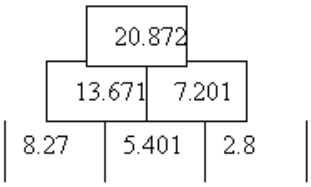
$$\begin{array}{r} 5.01 \\ -\ 0.02 \\ \hline \end{array}$$

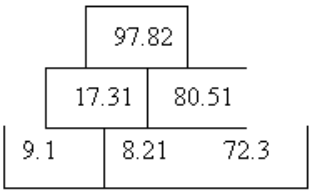
Decimal Pyramids (ext)

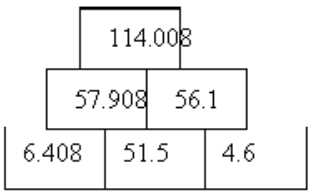
Add bricks next to each other to form the brick on top.
The first one has been started for you.

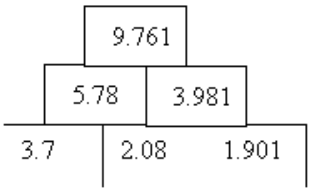


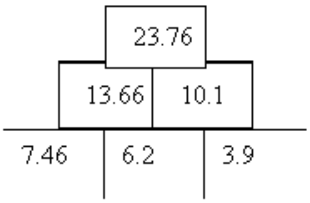


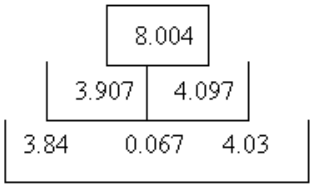


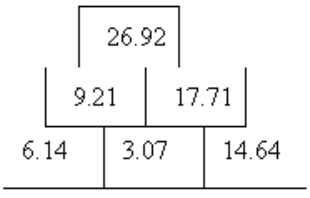












Subtracting decimals

1) 3.7 - 2.8

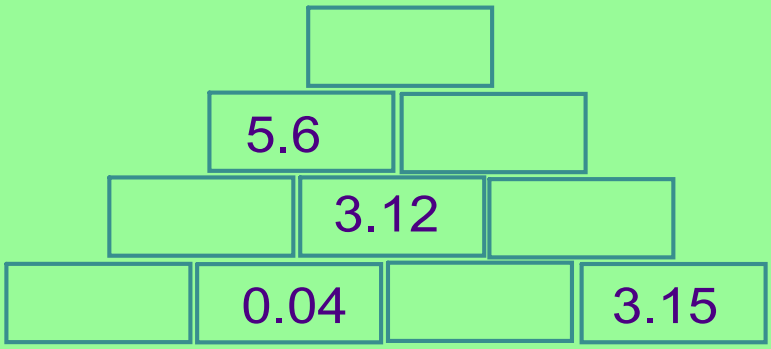
2) 4.5 - 2.9

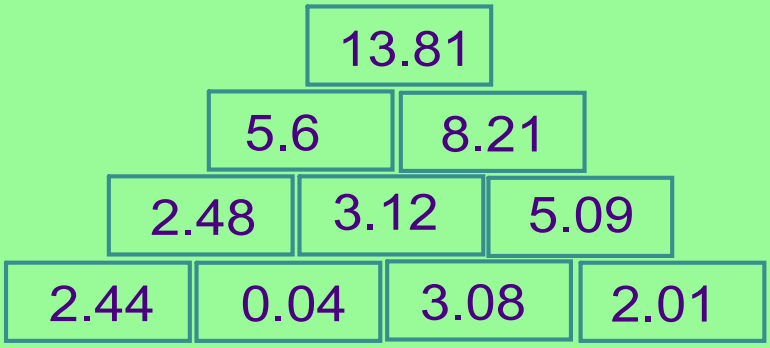
3) 4.5 - 1.04

4) 12.2 - 6.09

5) 34. 62 - 7.891

Ext





1) 0.9 + 0.1 =
2) 0.5 - 0.4 =
3) Write three tenths in decimals.
4) Write 0.2 in fractions.
5) 1.0 - 0.3 =
6) What is nine tenths subtract 0.3?
7) 0.4 + 0.4 =
8) 0.8 + 0.2 =
9) 0.8 - 0.3 =
10) 0.3 + 0.2 - 0.4 =
11) 0.8 - 0.2 =
12) What is eight tenths add 0.1?
13) Write 0.1 in fractions.
14) 0.1 + 0.2 + 0.3 =
15) 0.6 - 0.4 =
16) What is 0.4 add three tenths?
17) Write nine tenths in decimals.
18) 0.6 + 0.3 =
19) What is five tenths subtract 0.3?
20) 0.1 + 0.8 =
21) 0.6 + 0.2 + 0.1 =
22) What is five tenths add 0.5, subtract 0.2?
23) Write 0.7 in fractions.
24) What is 0.2 add seven tenths?
25) 0.3 + 0.6 - 0.2 - 0.5 =

1) 0.9 + 0.1 =1
2) 0.5 - 0.4 =0.1
3) Write three tenths in decimals= 0.3
4) Write 0.2 in fractions=2/10
5) 1.0 - 0.3 = 0.7
6) What is nine tenths subtract 0.3? 0.6
7) 0.4 + 0.4 =0.8
8) 0.8 + 0.2 =1.0
9) 0.8 - 0.3 =1.1
10) 0.3 + 0.2 - 0.4 =0.1
11) 0.8 - 0.2 =0.6
12) What is eight tenths add 0.1? 0.9
13) Write 0.1 in fractions. 1/10
14) 0.1 + 0.2 + 0.3 = 0.6
15) 0.6 - 0.4 =0.2
16) What is 0.4 add three tenths? 0.7
17) Write nine tenths in decimals 0.9
18) 0.6 + 0.3 - 0.2 = 0.7
19) What is five tenths subtract 0.3? 0.2
20) 0.1 + 0.8 =0.9
21) 0.6 + 0.2 + 0.1 = 0.9
22) What is five tenths add 0.5, subtract 0.2? 0.8
23) Write 0.7 in fractions. = 7/10
24) What is 0.2 add seven tenths? 0.9
25) 0.3 + 0.6 - 0.2 - 0.5 = 0.2

Using Decimals to solve problems.

Find the total length of two snakes put end to end if the mother is 1m 3cm and the baby 9.5 cm.

What is the difference in their lengths?

If the mother has a repeating pattern on her skin that is 20cm long how many complete cycles of the pattern are there?

If the mother had 11 babies all 9.5cm and they were placed alongside her, end-to-end, would they be longer or shorter than her?

How many of these can you do in 3 minutes?

0.6 x 100= 60

6 ÷ 100 = 0.06

= 12

0.06 x 200

7x 10 = 70

0. 6 ÷ 100 = 0.006

6000 ÷ 200 = 30

460 ÷ 20 = 23

0.6 x 200 = 120

23000

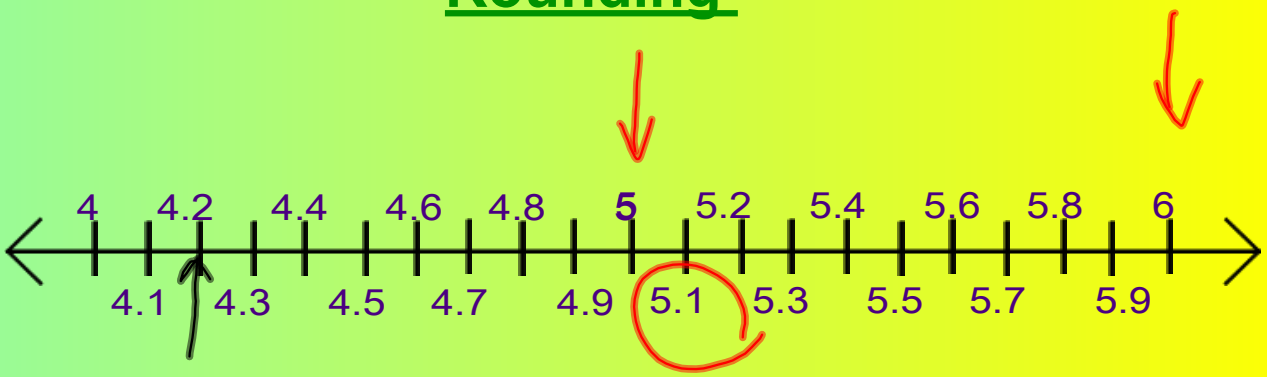
23 x 1000

level 3 1-4
level 4: 4-7
level 5 : 8+

0.006 ÷ 100 = 0.00006

6x200 = 1200

Rounding



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

page 40 Qu 1-3

Estimating

$2.1 \times 6.9 \approx 2 \times 7 = 14$

$6.8 \times 3.2 \approx 7 \times 3 = 21$

$9.9 \times 2.2 \approx 10 \times 2 = 20$

Rounding to a fixed number of decimal places.

2 001 090

155

65

45

154.5555

1999

To the nearest hundred:

78.4

0.5 0.45

5.4 4.998

99.9 2.49

to the nearest whole number:

To the nearest one decmal place.

1.45

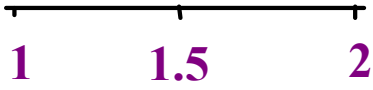
45.32

3.95

235.915

2.06

200.99



To round to one dp look at the number in the second dp.
no< 5, leave it;
no≥ 5 , round up.

page 40

Worksheet.wow. decimal place match level 6

Plenary : see attachment

Rounding to 1 decimal place

Use your calculator to find the square root...

	calculator display	to the nearest whole number	to one decimal place
$\sqrt{1}$	1	1	1.0
$\sqrt{2}$	1.41421...	1	1.4
$\sqrt{3}$	1.73205	2	1.7
$\sqrt{4}$	2	2	2.0
$\sqrt{5}$			
$\sqrt{6}$			
$\sqrt{7}$			
$\sqrt{8}$			
$\sqrt{9}$			
$\sqrt{10}$			
$\sqrt{11}$			
$\sqrt{12}$			

estimating
page 40

$2.3 \times 0.4 = 0.92$ $23 \times 0.4 = 9.2$

$23 \times 4 = 92$

80
12

$2.3 \times 4 = 9.2$ $0.23 \times 4 = 0.92$

Decimals and Multiplication

$3.1 \times 0.4 = 1.24$ $31 \times 0.4 = 12.4$

$31 \times 4 = 124$

$3.1 \times 4 = 12.4$ $0.31 \times 4 = 1.24$

Long multiplication

2.6 x 41

= 1066

X	20	6
40	800	240
1	20	6

820 + 246

= 1066

3.4 x 52

= 176.8 ✓

	50	2
30	1500	60
4	200	8

1700 + 68 = 1768

5.1 x 72

= 367.2

34 x 4.5 = 153.0

Multiplication

23 x 45

	40	5
20	800	100
3	120	15

920 + 115 = 1035

2.3 x 45

= 103.5

1) 34 x 21 = 714

b) 3.4 x 2.1

= 7.14

2) 54 x 32 = 1728

b) 0.54 x 32

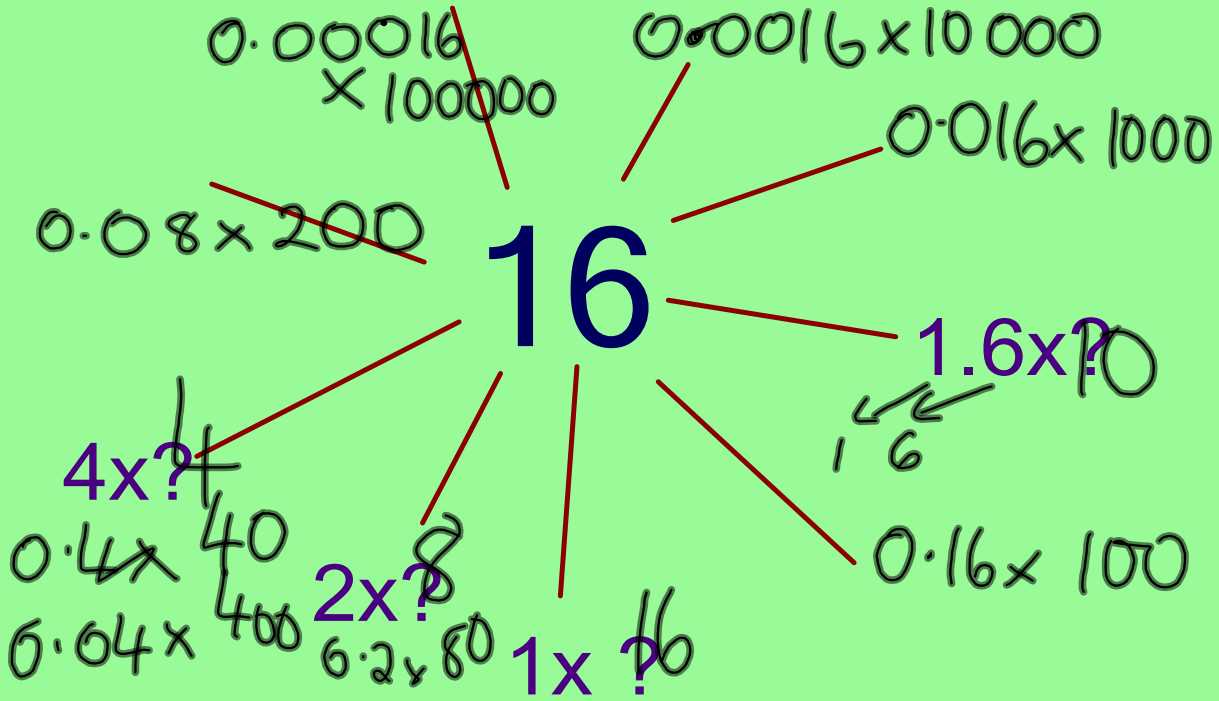
17.28

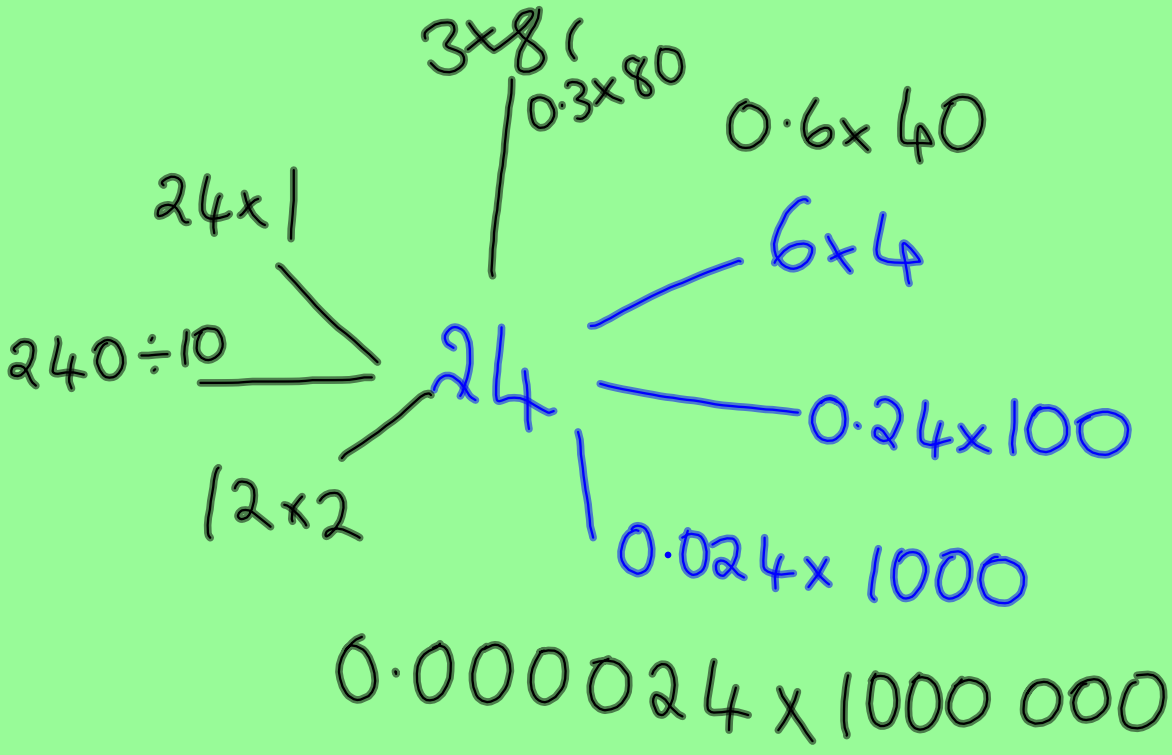
3) 71 x 43 = 3053

c) 7.1 x 0.43

= 3.053

How many multiplication sums can you can construct with an answer of 16?





Long Division

$252 \div 12 = 21$

$12 \times 10 = 120$

$12 \times 10 = 120$

240

$12 \times 1 \quad 12$

252

$583 \div 53 = 11$ $\quad 53 \times 10 = 530$

$53 \times 1 = 53$

583

$1260 \div 63 = 20$

$63 \times 10 = 630$

$63 \times 10 = 630$

1260

$1804 \div 82 = 22$

$82 \times 10 = 820$

$82 \times 10 = 820$

1640

$82 \times 1 = 82$

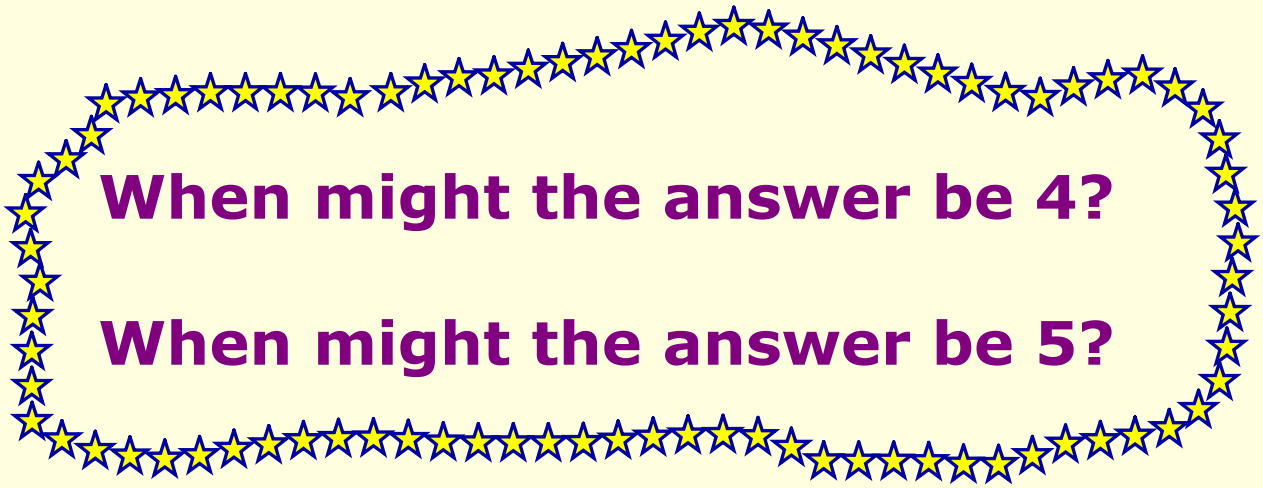
1722

$82 \times 1 \quad 82$

1804

1) $748 \div 68$
2) $792 \div 36$
3) $1705 \div 55$

Write a word problem that requires you to do the sum 26 ÷ 6?



Read and write positive integer powers of 10; multiply and divide integers and decimals by 0.1, 0.01.

Order decimals

Round positive numbers to any given power of 10; round decimals to the nearest whole number or to one or two decimal places.

Consolidate and extend mental methods of calculation, working with decimals, squares and square roots, cubes and cube roots; solve word problems mentally.

Consolidate standard column procedures for addition and subtraction of integers and decimals with up to two places.

Use standard column procedures for multiplication and division of integers and decimals, including by decimals such as 0.6 or 0.06; understand where to position the decimal point by considering equivalent calculations.

Make and justify estimates and approximations of calculations

Enter numbers and interpret the display of a calculator in different contexts (negative numbers, fractions, decimals, percentages, money, metric measures, time).

Check a result by considering whether it is of the right order of magnitude and by working the problem backwards

Carry out more difficult calculations effectively and efficiently using the function keys of a calculator for sign change, powers, roots and fractions; use brackets and the memory.

Attachments

rounding to 1 dp.xbk

15RandNos.xls