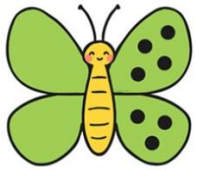
RECALL – X2 (DOUBLING)

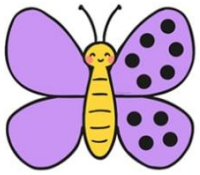
Draw the same number of spots on the other side of the butterfly.

Double 4 is ☐

Double 6 is ☐



Double 7 is ☐



Double 10 is ☐

Use the dienes or counters to help you.

Double 8 is ☐

8 + 8 = ___

8 x 2 = ___

Double 12 is ☐

_ + _ = ___

_ x 2 = ___

Double 23 is ☐

_ + _ = ___

_ x 2 = ___

Double 32 is ☐

_ + _ = ___

_ x 2 = ___

Double 41 is ☐

___ + ___ = ___

___ x 2 = ___

Double 121 is ☐

Double 143 is ☐

Double 212 is ☐

Double 324 is ☐

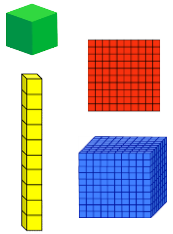
Double 432 is ☐

Double these four digit numbers.

2 x 1231 = _____

2 x 2122 = _____

2 x 3243 = _____



Write an explanation about how you solved it using this vocabulary.

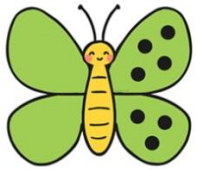
Tens Units Hundreds
Thousands Multiply Add Total

RECALL – X2 (DOUBLING)

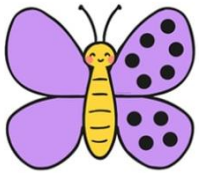
Draw the same number of spots on the other side of the butterfly.

Double 4 is 8

Double 6 is 12



Double 7 is 14



Double 10 is 20

Use the dienes or counters to help you.

Double 8 is 16
8 + 8 = 16
8 x 2 = 16

Double 12 is 24
12 + 12 = 24
12 x 2 = 24

Double 23 is 46
23 + 23 = 46
23 x 2 = 46

Double 32 is 64
32 + 32 = 64
32 x 2 = 64

Double 41 is 82
41 + 41 = 82
41 x 2 = 82

Double 121 is 242

Double 143 is 286

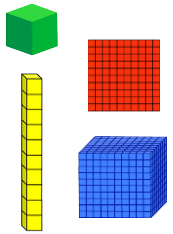
Double 212 is 424

Double 324 is 648

Double 432 is 864

Double these four digit numbers.

2 x 1231 = 2462
2 x 2122 = 4244
2 x 3243 = 6486



Write an explanation about how you solved it using this vocabulary.

Tens Units Hundreds Thousands Multiply Add Total

LO: I CAN MULTIPLY A 2 DIGIT NUMBER BY A 1 DIGIT NUMBER.

MODELLED EXAMPLE

On Monday, three customers buy 24 flowers each from Sam's flower shop.

How many flowers did they buy in total?

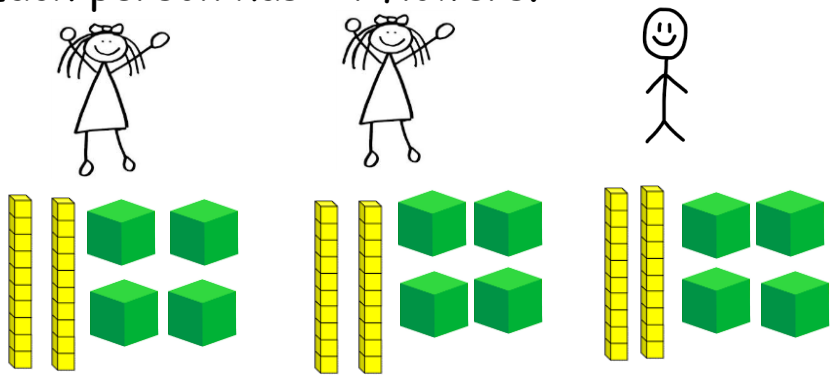
$3 \times 24 = \square$

Act out the problems with equipment.

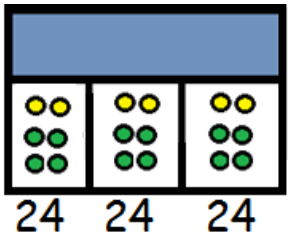
Draw it pictorially.

Working it out – dienes

Each person has 24 flowers.



Bar model/ place value counters



Times tables

$3 \times 20 = 60$

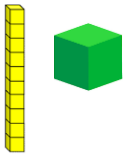
$3 \times 4 = 12$

Add the totals.

INTELLIGENT PRACTICE

Multiply the Tens then the Units. Add the totals together.

Use dienes or counters to help you.



2 x 11 = ☐
2 x 10 =
2 x 1 =

2 x 13 = ☐
2 x 10 =
2 x 3 =

2 x 21 = ☐
2 x 20 =
2 x 1 =

2 x 32 = ☐
2 x 30 =
2 x 2 =

2 x 16 = ☐
2 x 10 =
2 x 6 =

3 x 25 = ☐
3 x 20 =
3 x 5 =

4 x 14 = ☐
4 x 10 =
4 x 4 =

5 x 13 = ☐
5 x 10 =
5 x 3 =

2 x 230 = ☐
2 x 200 =
2 x 30 =
2 x 0 =

3 x 120 = ☐
3 x 100 =
3 x 20 =
3 x 0 =

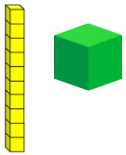
4 x 1202 = ☐
4 x 1000=
4 x 200 =
4 x 0 =
4 x 2 =

Explain the process. How did you work out calculations in chilli 2 and 3.

INTELLIGENT PRACTICE

Multiply the Tens then the Units. Add the totals together.

Use dienes or counters to help you.



2 x 11 = 22
2 x 10 = 20
2 x 1 = 2

2 x 13 = 26
2 x 10 = 20
2 x 3 = 6

2 x 21 = 42
2 x 20 = 40
2 x 1 =2

2 x 32 = 64
2 x 30 = 60
2 x 2 = 4

2 x 16 = 32
2 x 10 = 20
2 x 6 = 12

3 x 25 = 75
3 x 20 = 60
3 x 5 = 15

4 x 14 = 56
4 x 10 = 40
4 x 4 = 16

5 x 13 = 65
5 x 10 = 50
5 x 3 = 15

2 x 230 = 460
2 x 200 = 400
2 x 30 = 60
2 x 0 = 0

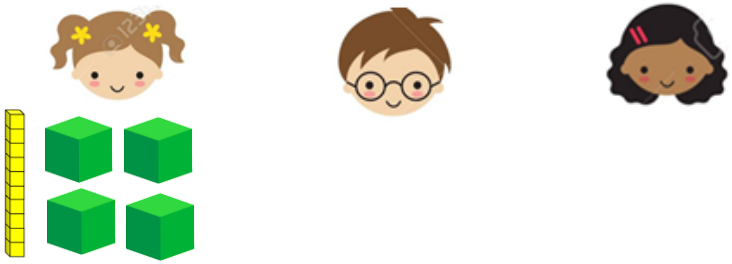
3 x 120 = 360
3 x 100 = 300
3 x 20 = 60
3 x 0 = 0

4 x 1202 = 4808
4 x 1000= 4000
4 x 200 = 800
4 x 0 = 0
4 x 2 = 8

Explain the process. How did you work out calculations in chilli 2 and 3.

DIVE DEEPER

1 Three customers buy 14 flowers each. Finish off drawing the dienes beneath each person.



3 customers x 14 flowers.

3 x 10 = ☐

3 x 4 = ☐

When I add these two totals, I get ☐.

2 Each bag of Maltesers have 14 chocolates. How many would be in 4 packs?

4 packs x ☐ chocolates

4 x 10 = ☐

4 x ___ = ☐

When I add these two totals, I get ☐.

3 Use the place value grid to work out 3 x 25 . First, multiply the Tens, then the Units. Finally, add the two totals.

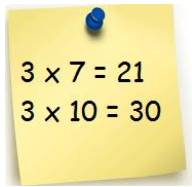
3 x ___ = ___

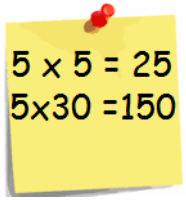
3 x ___ = ___

___ + ___ = ___

T	U
●●	●●●●●
●●	●●●●●
●●	●●●●●

4 Finish the multiplications using the working out.





3 x ___ = 51

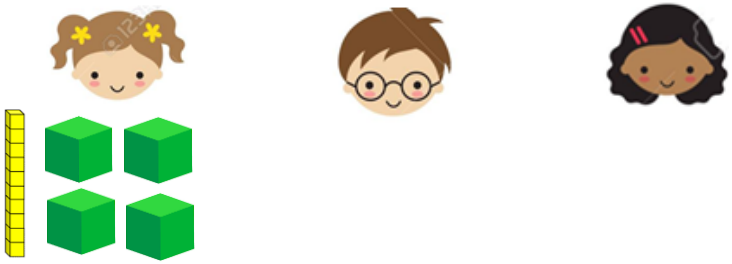
5 x ___ = ____

5 Match the multiplication to the answer. Show your working out in your maths book.

56 x 3	208
26 x 8	185
37 x 5	168

DIVE DEEPER

1 Three customers buy 14 flowers each. Finish off drawing the dienes beneath each person.



3 customers x 14 flowers.

3 x 10 = 30

3 x 4 = 12

When I add these two totals, I get 42 .

2 Each bag of Maltesers have 14 chocolates. How many would be in 4 packs?

4 packs x 14 chocolates

4 x 10 = 40

4 x 4 = 16

When I add these two totals, I get 56 .

3 Use the place value grid to work out 3 x 25 .
First, multiply the Tens, then the Units.
Finally, add the two totals.

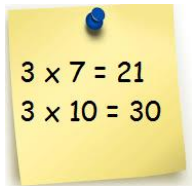
3 x 20 = 60

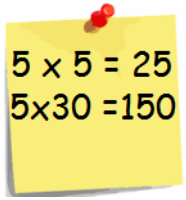
3 x 5 = 15

60 + 15 = 75

T	U
●●	●●●●●
●●	●●●●●
●●	●●●●●

4 Finish the multiplications using the working out.

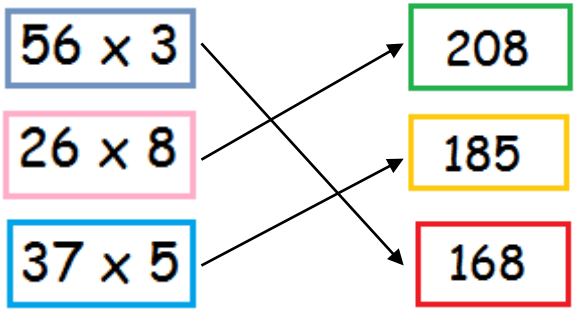




3 x 17 = 51

5 x 35 = 175

5 Match the multiplication to the answer.
Show your working out in your maths book.



DIVE DEEPER 2

1

I know that when multiplying 3 by 40, 40 is ten times bigger than 4, so my answer will be ten times bigger than 3 × 4

Is Mo correct?
Explain your answer.

2

Dexter says,

$4 \times 21 = 2 \times 42$

Is Dexter correct?

3. True or false?

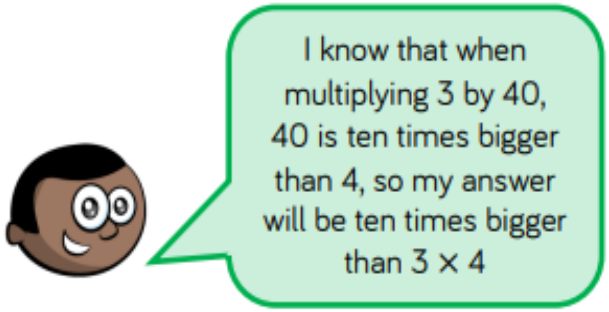
$5 \times 30 = 3 \times 50$

Prove it.

Mr Davis has five £1 coins and Miss Brown has ten 50p coins.
Mr Davis thinks that he has more money.
Is this true or false?
How can you explain the answer clearly to Mr Davis?
What other ways could you make up this amount but only using £1 coins and 50p coins?

DIVE DEEPER 2

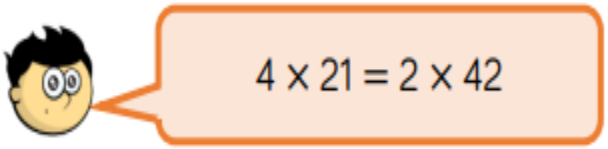
1



Is Mo correct?
Explain your answer.

Mo is correct. If 3 x 4 is 12 then 3 x 40 will be ten times bigger so the answer is 120.

Dexter says,



2

Is Dexter correct?

Dexter is correct. Both answers equal 84.

Mr Davis has five £1 coins and Miss Brown has ten 50p coins. Mr Davis thinks that he has more money. Is this true or false?
How can you explain the answer clearly to Mr Davis?
What other ways could you make up this amount but only using £1 coins and 50p coins?

Mr Davis £1 + £1 + £1 + £1 + £1 = £5

Miss Brown 50p x 10 = 500p or £5.

Mr Davis was incorrect. They both have the same amount of money.