

13.01.21

EMA

★		★★		★★★	
A1.υ	2 + 6	B1.υ	4 + 61	C1.υ	83 + 7
A2.υ	6 + 3	B2.υ	8 + 90	C2.υ	4 + 83
A3.υ	6 + 9	B3.υ	96 + 9	C3.υ	59 + 8
A4.υ	9 + 8	B4.υ	6 + 46	C4.υ	26 + 4
A5.υ	2 + 2	B5.υ	8 + 89	C5.υ	26 + 10

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EMA - answers

★		★★		★★★	
A1.ᵘ	8	B1.ᵘ	65	C1.ᵘ	90
A2.ᵘ	9	B2.ᵘ	98	C2.ᵘ	87
A3.ᵘ	15	B3.ᵘ	105	C3.ᵘ	67
A4.ᵘ	17	B4.ᵘ	52	C4.ᵘ	30
A5.ᵘ	4	B5.ᵘ	97	C5.ᵘ	36

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Grid Multiplication

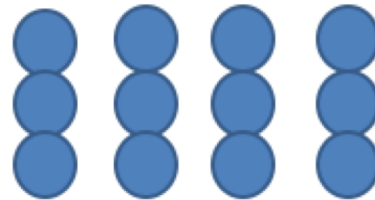
x		

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Grid Multiplication

Recap

Show 3×4 as an array



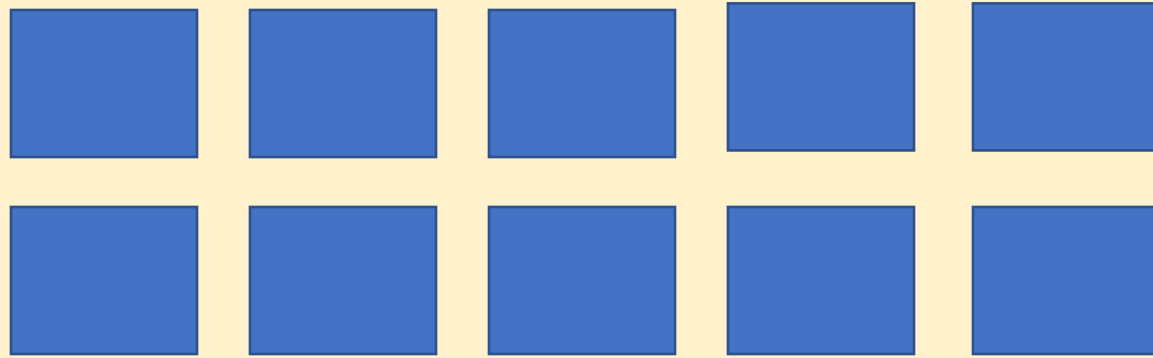
= 12

Your turn...

Show 5 x 2 as an array.....

Your turn...

Show 5×2 as an array.....



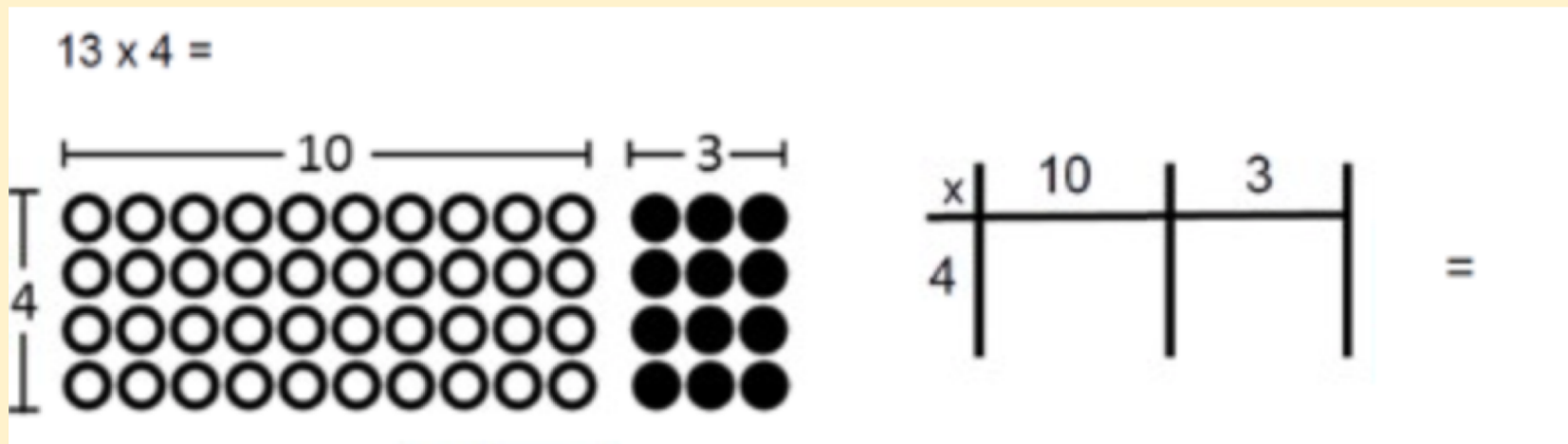
= 10

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Grid Multiplication

Recap

Show as an array...

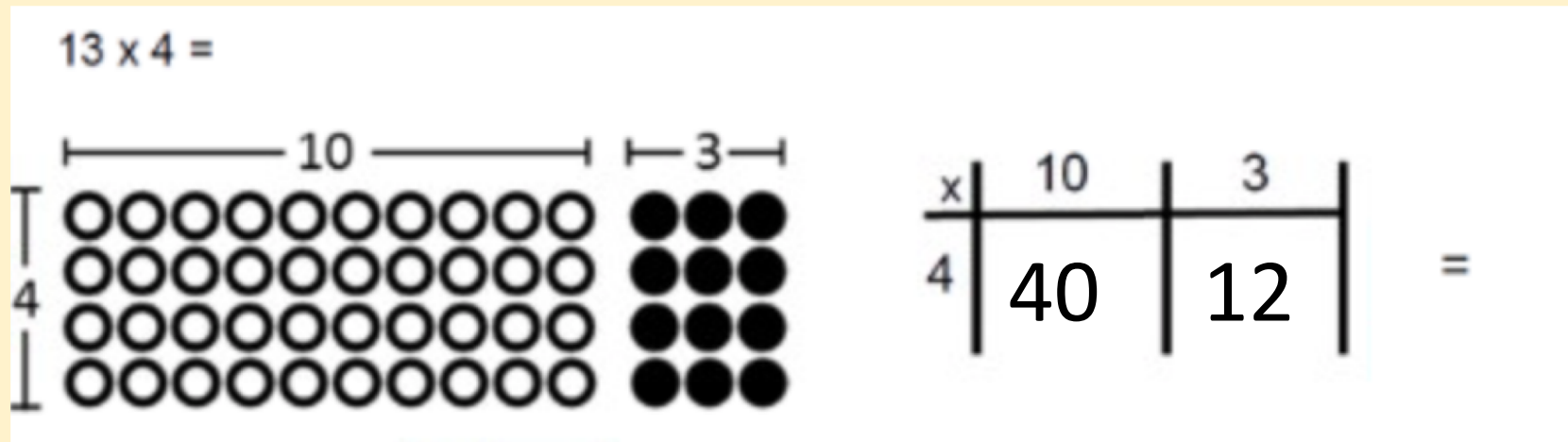


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Grid Multiplication

Recap

Show as an array...



$$\begin{array}{r} 40 \\ + 12 \\ \hline 52 \\ \hline \end{array}$$

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Grid Multiplication

1. Draw your grid
2. Partition the 2-digit number across the top of your grid.
3. Write the 1-digit number along the side of your grid.
4. Multiply
5. Add your answers together.

Recap

X	10	2
5		

Recap

$$12 \times 5 =$$

X	10	2
5	50	10

$$\begin{array}{r} 50 \\ + 10 \\ \hline 60 \\ \hline \end{array}$$

$$12 \times 5 = 60$$

Your Turn

$$15 \times 3 =$$

X	10	5
3		

+

—

—

$$15 \times 3 = \underline{\hspace{2cm}}$$

Your Turn

You can check your answer

X	10	5
3	30	15


$$\begin{array}{r} 30 \\ + 15 \\ \hline 45 \\ \hline \end{array}$$

$$15 \times 3 = 45$$

My Turn

Do you remember your related facts for multiplication?

X	30	5
4		



If I know

$$3 \times 4 = 12$$

Then

$$30 \times 4 = 120$$

My Turn

Do you remember your related facts for multiplication?

X	30	5
4	120	20

$$\begin{array}{r} 120 \\ + 20 \\ \hline 140 \\ \hline \end{array}$$

$$35 \times 4 = 140$$

*I can solve multiplication calculations using arrays.

Draw arrays or use objects to solve the following questions.

- 1) $8 \times 3 =$
- 2) $3 \times 9 =$
- 3) $4 \times 7 =$
- 4) $6 \times 6 =$
- 5) $8 \times 5 =$
- 6) $3 \times 7 =$
- 7) $6 \times 4 =$
- 8) $4 \times 8 =$

**I can solve multiplication calculations using a grid method.

- 1) $16 \times 3 =$
- 2) $15 \times 5 =$
- 3) $12 \times 5 =$
- 4) $16 \times 5 =$
- 5) $19 \times 3 =$
- 6) $14 \times 3 =$
- 7) $17 \times 2 =$
- 8) $18 \times 5 =$
- 9) $11 \times 4 =$
- 10) $17 \times 4 =$

***I can solve multiplication calculations using a grid method.

- 1) $23 \times 5 =$
- 2) $26 \times 2 =$
- 3) $84 \times 3 =$
- 4) $76 \times 5 =$
- 5) $92 \times 8 =$
- 6) $48 \times 5 =$
- 7) $35 \times 8 =$
- 8) $52 \times 4 =$
- 9) $92 \times 4 =$
- 10) $57 \times 8 =$
- 11) One length of a swimming pool is 22m. Charlie swims 9 lengths. How far does he swim?
- 12) Stamps cost 36p each. What do seven stamps cost?

CHALLENGE

Grid Multiplication Mastery

x	30	2
		4

_____ x _____ = _____

x		2
5	150	

_____ x _____ = _____

x	40	5
	200	

_____ x _____ = _____

x	30	6
		24

_____ x _____ = _____

x		9
4	160	

_____ x _____ = _____

x	20	7
	120	

_____ x _____ = _____

x	50	8
		32

_____ x _____ = _____

x		7
3	270	

_____ x _____ = _____

x	20	9
	160	

_____ x _____ = _____

x	70	5
	420	

_____ x _____ = _____

*I can solve multiplication calculations using arrays.

Draw arrays or use objects to solve the following questions.

- 1) $8 \times 3 = 24$
- 2) $3 \times 9 = 27$
- 3) $4 \times 7 = 28$
- 4) $6 \times 6 = 36$
- 5) $8 \times 5 = 40$
- 6) $3 \times 7 = 21$
- 7) $6 \times 4 = 24$
- 8) $4 \times 8 = 32$

**I can solve multiplication calculations using a grid method.

- 1) $16 \times 3 = 48$
- 2) $15 \times 5 = 75$
- 3) $12 \times 5 = 60$
- 4) $16 \times 5 = 80$
- 5) $19 \times 3 = 57$
- 6) $14 \times 3 = 42$
- 7) $17 \times 2 = 34$
- 8) $18 \times 5 = 90$
- 9) $11 \times 4 = 44$
- 10) $17 \times 4 = 68$

***I can solve multiplication calculations using a grid method.

- 1) $23 \times 5 = 115$
- 2) $26 \times 2 = 52$
- 3) $84 \times 3 = 252$
- 4) $76 \times 5 = 380$
- 5) $92 \times 8 = 736$
- 6) $48 \times 5 = 240$
- 7) $35 \times 8 = 280$
- 8) $52 \times 4 = 208$
- 9) $92 \times 4 = 368$
- 10) $57 \times 8 = 456$
- 11) One length of a swimming pool is 22m. Charlie swims 9 lengths. How far does he swim? 198
- 12) Stamps cost 36p each. What do seven stamps cost? 252

CHALLENGE - answers

Answers

x	30	2
2	60	4

$$32 \times 2 = 64$$

or

$$2 \times 32 = 64$$

x	20	7
6	120	42

$$27 \times 6 = 162$$

or

$$6 \times 27 = 162$$

x	30	6
4	120	24

$$36 \times 4 = 144$$

or

$$4 \times 36 = 144$$

x	20	9
8	160	72

$$29 \times 8 = 232$$

or

$$8 \times 29 = 232$$

x	30	2
5	150	10

$$32 \times 5 = 160$$

or

$$5 \times 32 = 160$$

x	50	8
4	200	32

$$58 \times 4 = 232$$

or

$$4 \times 58 = 232$$

x	40	9
4	160	36

$$49 \times 4 = 196$$

or

$$4 \times 49 = 196$$

x	70	5
6	420	30

$$75 \times 5 = 450$$

or

$$6 \times 75 = 450$$

x	40	5
5	200	25

$$45 \times 5 = 225$$

or

$$5 \times 45 = 225$$

x	90	7
3	270	21

$$97 \times 3 = 291$$

or

$$3 \times 97 = 291$$