

# Multiples and factors

Can you identify the multiples and factors?



**Circles the multiples of 13**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

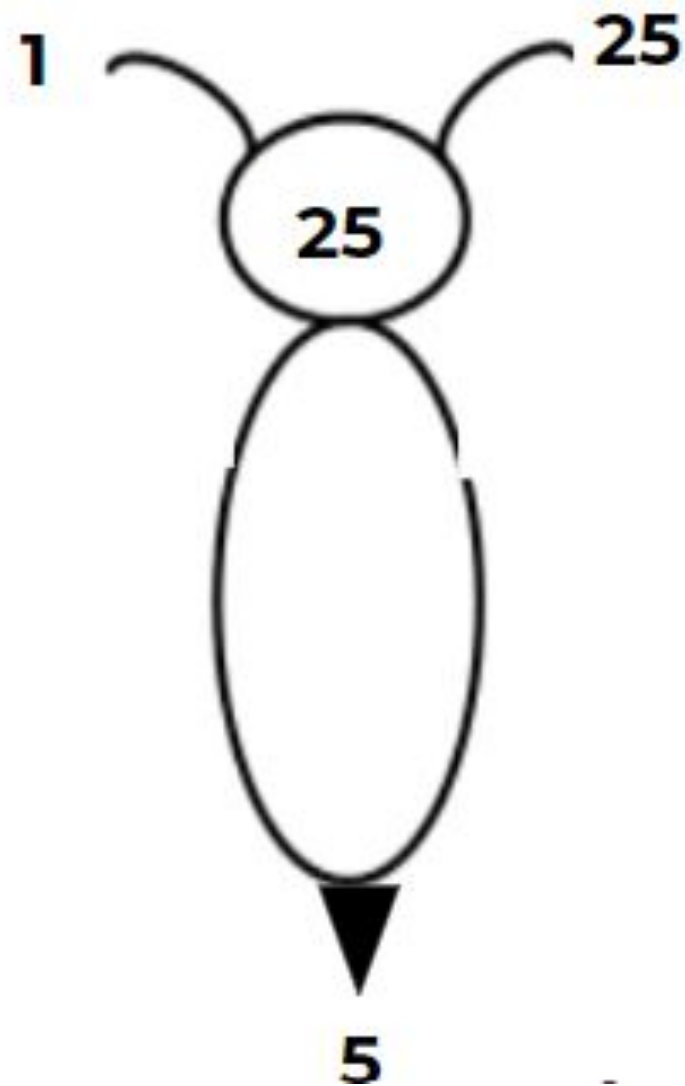
**Circles the factors of 60**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



# Multiples and factors

What would be the 6th product in this sequence of squared numbers?



$$2 \times 2 = 4$$



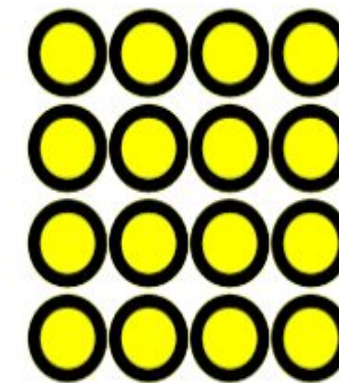
$$2^2$$

$$3 \times 3 = 9$$



$$3^2$$

$$4 \times 4 = 16$$

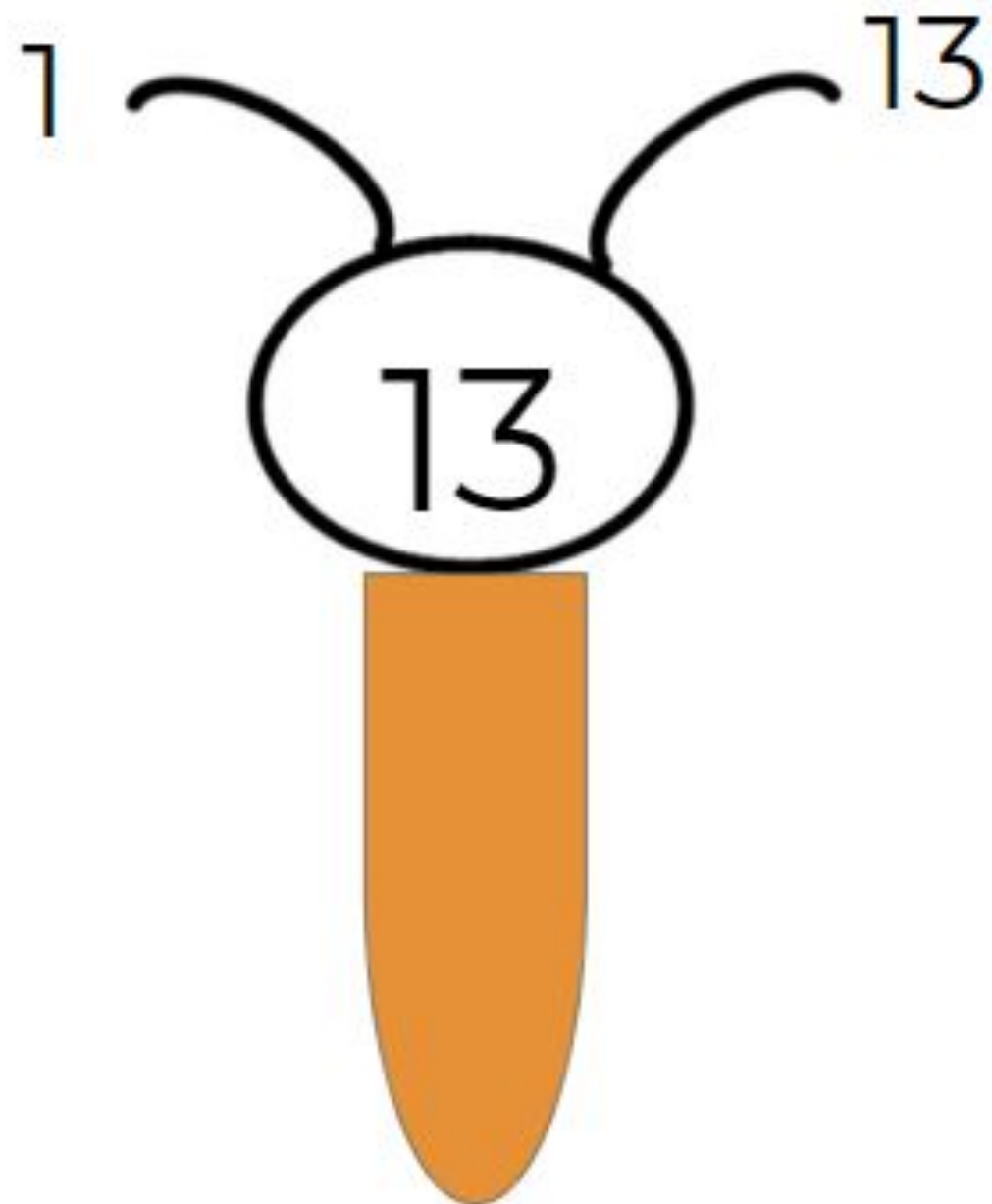


$$4^2$$



# Multiples and factors

What number has been incorrectly circled as a prime number?



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



# Multiply and divide by 10, 100, 1000

Which of the following statements are false?



$$60 \div 10 = 6$$

$$7200 \div 100 = 72$$

$$72 \times 100 = 720$$

$$21 \times 1000 = 2100$$

$$6320 \div 100 = 63.2$$

$$4855 \div 10 = 485.5$$

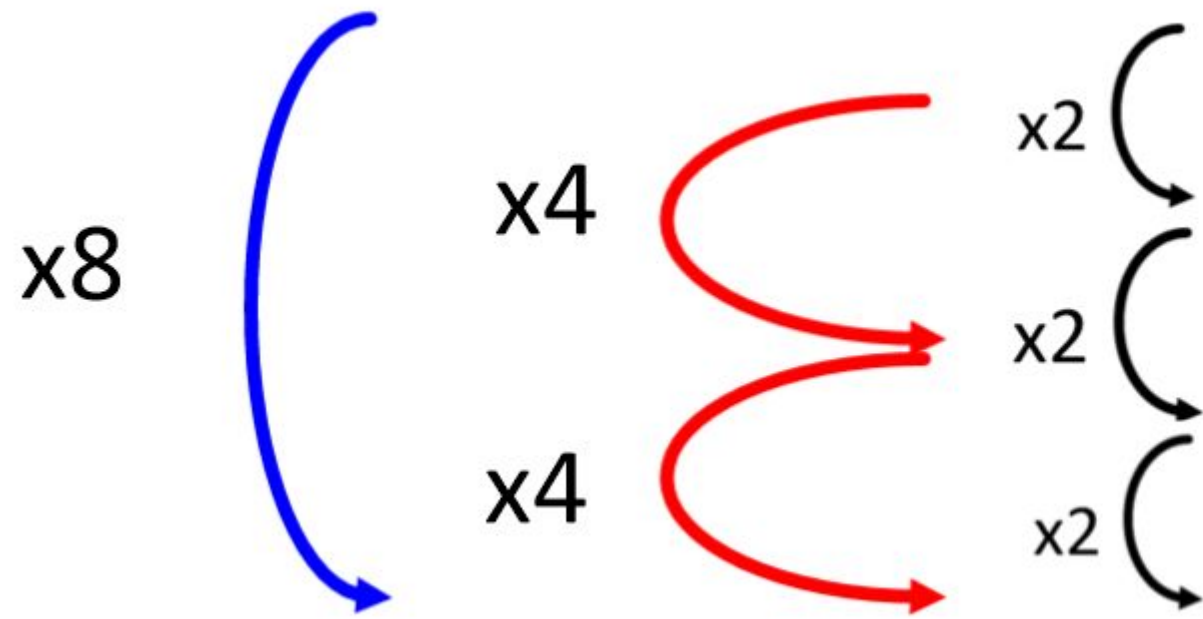
$$412 \times 1000 = 412,000$$

$$192 \times 100 = 192,000$$



# Mental Strategies for multiplying and dividing

## Complete these calculations



$$7 \times 8 = ?$$

$$13 \times 8 = ?$$

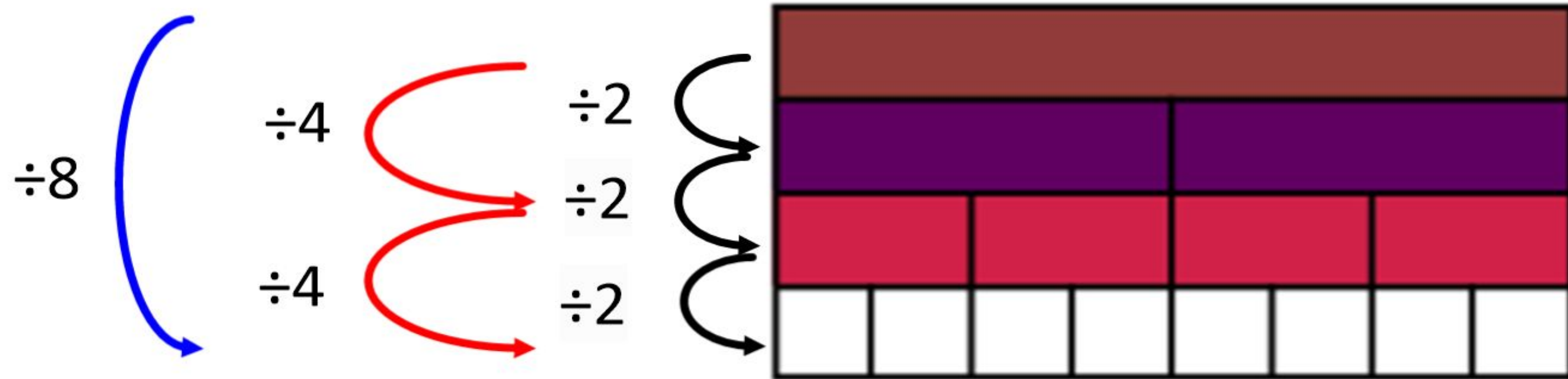
$$16 \times 8 = ?$$

$$22 \times 8 = ?$$



# Mental Strategies for multiplying and dividing

## Complete these calculations



$$64 \div 8 = ?$$

$$152 \div 8 = ?$$

$$192 \div 8 = ?$$

$$480 \div 8 = ?$$



# Mental Strategies for multiplying

## Distributive Law



Which statements are inaccurate?

$$32 \times 17$$

1)  $30 \times 10 + 2 \times 17 + 2 \times 7$

2)  $32 \times 10 + 30 \times 7 + 2 \times 7$

3)  $30 \times 10 + 2 \times 10 + 30 \times 7 + 2 \times 7$

4)  $30 \times 10 + 2 \times 10 + 2 \times 7 + 2 \times 17$



# Formal methods

Complete the following calculations using the formal methods shown.



1)  $624 \times 40$

5)  $27 \times 16$

2)  $1211 \times 70$

6)  $32 \times 21$

3)  $2742 \times 3$

7)  $1,960 \div 8$

4)  $931 \times 7$

8)  $1,684 \div 4$

