



1) Complete the calculation for each set of place value counters.



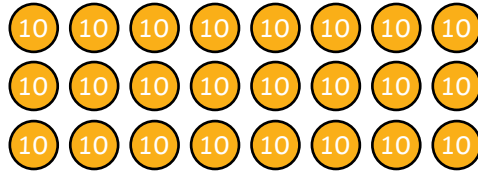
a)  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$



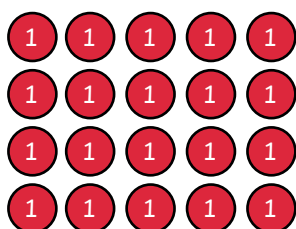
b)  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$



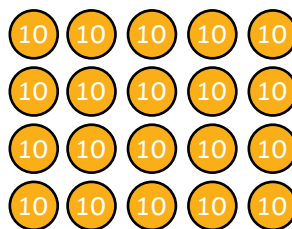
c)  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$



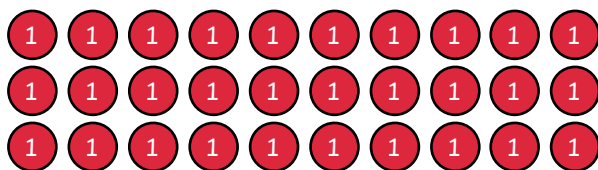
d)  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$



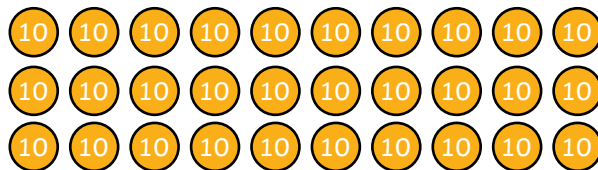
e)  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$



f)  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

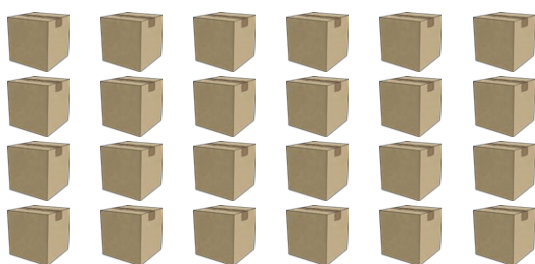


g)  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$



h)  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

2)



There are  $\underline{\quad}$  columns of  $\underline{\quad}$  boxes.

$\underline{\quad} \times \underline{\quad} = \underline{\quad}$

There are  $\underline{\quad}$  boxes altogether.

Each box contains ten tennis balls.

There are  $\underline{\quad}$  columns of  $\underline{\quad}$  balls.

$\underline{\quad} \times \underline{\quad} = \underline{\quad}$

There are  $\underline{\quad}$  balls altogether.

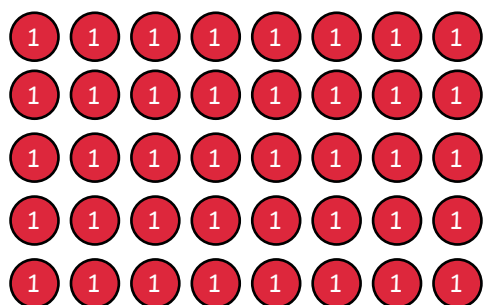


3) If we know that  $7 \times 5 = 35$ , we know that  $70 \times 5 = 350$ . Complete the fact families for each calculation.

| $7 \times 5 = 35$   | $3 \times 4 = 12$                                                                     | $6 \times 8 = 48$                                                                     | $64 \div 8 = 8$                                                                       |
|---------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| $70 \times 5 = 350$ | $30 \times 4 = \underline{\hspace{2cm}}$                                              | $\underline{\hspace{2cm}} \times 8 = 480$                                             | $640 \div 8 = \underline{\hspace{2cm}}$                                               |
| $5 \times 70 = 350$ | $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ | $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ | $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$   |
| $50 \times 7 = 350$ | $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ | $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ | $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ |
| $7 \times 50 = 350$ | $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ | $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ | $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ |
| $350 \div 50 = 7$   | $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$   | $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$   |                                                                                       |
| $350 \div 7 = 50$   | $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$   | $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$   |                                                                                       |
| $350 \div 5 = 70$   | $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$   | $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$   |                                                                                       |
| $350 \div 70 = 5$   | $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$   | $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$   |                                                                                       |



- 1) Thomas is calculating  $80 \times 5$ . He has created this array using place value counters to help him.



There are 40 counters in my array, so I need to multiply my answer by 2 to calculate  $80 \times 5$ .

Do you agree? Explain your reasons.

---

---

---

---

- 2) Geri says that  $80 \times 5$  will have the same answer as  $50 \times 8$ . Do you agree? How could you use arrays and the times table facts you know to prove your answer?

---

---

---

---





- 1) Use your times tables knowledge to find two multiplication facts that make each total.

|     |     |     |
|-----|-----|-----|
| 240 | 160 | 180 |
| 120 | 360 | 720 |

- 2) Ms Patel is booking cinema tickets for a whole-school visit. She wants to choose a screen at the cinema where the 480 pupils on the trip can fill up each row of seats and there won't be any rows with empty spaces.

| Screen            | A  | B  | C  | D  | E  | F  | G  | H  |
|-------------------|----|----|----|----|----|----|----|----|
| Seats in Each Row | 10 | 12 | 18 | 20 | 35 | 45 | 50 | 60 |

- a) Which of the following screens would be suitable for the trip?

---

- b) To fit all 480 children in, how many rows would Ms Patel need to reserve in each different suitable screen?

---

---

