

Bronze

1a. Complete the statement below using $<$, $>$ or $=$.

11 x 23 12 x 22

| | | | |
|-------|--|---|---|
| | | 2 | 3 |
| x | | 1 | 1 |
| <hr/> | | | |
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| | | | |
|-------|--|---|---|
| | | 2 | 2 |
| x | | 1 | 2 |
| <hr/> | | | |
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VF

1b. Multiply 2 digits by 2 digits using the cards below to create an even number.

| | | | |
|-------|--|--|--|
| | | | |
| | | | |
| x | | | |
| <hr/> | | | |
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4

3

1

2

PS



2a. True or false? $16 \times 12 = 182$

| | | | |
|-------|--|---|---|
| | | 1 | 6 |
| x | | 1 | 2 |
| <hr/> | | | |
| | | 1 | 2 |
| | | 2 | 0 |
| | | 6 | 0 |
| | | 1 | 0 |
| | | 0 | 0 |
| | | 1 | 8 |
| | | 2 | |

(2 x 6)
(2 x 10)
(10 x 6)
(10 x 10)



VF

2b. Tomas is thinking of a number...



I multiply the number by 22. The answer is less than 400 but greater than 350.

What could Tomas's number be?



PS

3a. Complete the calculation below.

| | | | |
|-------|--|---|---|
| | | 2 | 7 |
| x | | 2 | 1 |
| <hr/> | | | |
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| | | | |

(1 x 7)
(1 x 20)
(20 x 7)
(20 x 20)

3b. Faith solves the following multiplication.



| | | | |
|-------|--|---|---|
| | | 2 | 3 |
| x | | 1 | 7 |
| <hr/> | | | |
| | | 2 | 1 |
| | | 1 | 4 |
| | | | 0 |
| | | | 3 |
| | | 2 | 0 |
| | | 0 | 0 |
| | | 3 | 6 |
| | | 4 | |

(7 x 3)
(7 x 20)
(10 x 3)
(10 x 20)

Is she correct? Explain your answer.

4a. Complete the statement below using $<$, $>$ or $=$.

$$12 \times 38 \quad \square \quad 14 \times 34$$

| | | | |
|-------|--|--|--|
| | | | |
| x | | | |
| <hr/> | | | |
| | | | |
| | | | |
| | | | |

| | | | |
|-------|--|--|--|
| | | | |
| x | | | |
| <hr/> | | | |
| | | | |
| | | | |
| | | | |



VF

4b. Multiply 2 digits by 2 digits using the cards below to create an even number.

| | | | |
|-------|--|--|--|
| | | | |
| x | | | |
| <hr/> | | | |
| | | | |
| | | | |
| | | | |

3

6

4

8



PS

5a. True or false? $44 \times 23 = 912$

| | | | |
|-------|---|---|---|
| | | 4 | 4 |
| x | | 2 | 3 |
| <hr/> | | | |
| | 1 | 3 | 2 |
| | 8 | 8 | 0 |
| | 9 | 1 | 2 |
| | 1 | | |

(3 x 44)

(20 x 44)



VF

5b. Aimee is thinking of a number...



I multiply the number by 41. The answer is odd and is less than 700 but greater than 600.

What could Aimee's number be?
Find all the possibilities.



PS

6a. Complete the calculation below.

| | | | |
|-------|--|---|---|
| | | 4 | 3 |
| x | | 3 | 5 |
| <hr/> | | | |
| | | | |
| | | | |
| | | | |

(5 x 43)

(30 x 43)



VF

6b. May solves the following multiplication.



| | | | |
|-------|---|---|---|
| | | 4 | 3 |
| x | | 2 | 8 |
| <hr/> | | | |
| | 3 | 4 | 4 |
| | 8 | 6 | 0 |
| <hr/> | | | |
| | 1 | 1 | 0 |
| | | | 4 |

Is she correct? Explain your answer.

Gold

7a. Complete the statement below using your own digits.

$$3 \square \times 75 < 34 \times 7 \square$$

| | | | |
|-------|--|--|--|
| | | | |
| x | | | |
| <hr/> | | | |
| | | | |
| <hr/> | | | |
| | | | |
| <hr/> | | | |
| | | | |

| | | | |
|-------|--|--|--|
| | | | |
| x | | | |
| <hr/> | | | |
| | | | |
| <hr/> | | | |
| | | | |
| <hr/> | | | |
| | | | |



VF

8a. True or false? The digit cards can be used to complete the calculation below.

| | | | |
|-------|---|---|---|
| | | 7 | |
| x | | | 5 |
| <hr/> | | | |
| | | | |
| <hr/> | | | |
| 2 | 5 | 2 | 0 |
| <hr/> | | | |
| | | 1 | |

| |
|---|
| 2 |
|---|

| |
|---|
| 4 |
|---|



VF

9a. Complete the calculation below.

| | | | | | |
|-------|---|---|---|--|---|
| | | | | | 8 |
| x | | | 4 | | |
| <hr/> | | | | | |
| | | | | | |
| <hr/> | | | | | |
| 2 | 9 | 2 | 4 | | |
| <hr/> | | | | | |
| | | | | | |



VF

7b. Use the cards below to create a 2 digits x 2 digit calculation to complete the answer shown. The cards can be used more than once.

| | | | | | |
|-------|--|---|---|--|--|
| | | | | | |
| x | | | | | |
| <hr/> | | | | | |
| | | | | | |
| <hr/> | | | | | |
| 3 | | 1 | 5 | | |
| <hr/> | | | | | |
| | | | | | |



| |
|---|
| 3 |
|---|

| |
|---|
| 9 |
|---|

| |
|---|
| 5 |
|---|

| |
|---|
| 7 |
|---|

PS

8b. Ty is thinking of a number.



My first number is a multiple of 6 and 3. I multiply the number by a 2-digit odd number which is a multiple of 7. One of the digits in the answer is even.

What could Ty's numbers be?



PS

9b. Jayvion says it is not possible to make 9,811 when multiplying a 2-digit number by 89.



| | | | | | |
|-------|---|---|---|---|--|
| | | | | | |
| x | | | 8 | 9 | |
| <hr/> | | | | | |
| | | | | | |
| <hr/> | | | | | |
| 9 | 8 | 1 | 1 | | |
| <hr/> | | | | | |
| | | | | | |

David says it is.

Who is correct? Explain your answer.

Challenge

1. Complete the calculation using the digit cards below. You may use each digit more than once.



| | | | |
|-------|----------------------|----------------------|----------------------|
| | | <input type="text"/> | <input type="text"/> |
| x | | <input type="text"/> | <input type="text"/> |
| <hr/> | | | |
| | <input type="text"/> | <input type="text"/> | 5 |
| | <input type="text"/> | <input type="text"/> | 0 |
| <hr/> | | | |
| | <input type="text"/> | 8 | <input type="text"/> |

Investigate the options if the answer were a 4-digit number.

2. You and your partner each need a grid, as below. Take turns to roll a dice and place the digit you roll on a calculation grid. You may place the digit on your calculation grid or your partner's.

Once you each have two 2-digit numbers on your grid, calculate your answers. Whoever has the biggest number, wins.

| | | | | |
|-------|--|--|----------------------|----------------------|
| | | | <input type="text"/> | <input type="text"/> |
| x | | | <input type="text"/> | <input type="text"/> |
| <hr/> | | | | |
| | | | | |
| <hr/> | | | | |
| | | | | |

| | | | | |
|-------|--|--|----------------------|----------------------|
| | | | <input type="text"/> | <input type="text"/> |
| x | | | <input type="text"/> | <input type="text"/> |
| <hr/> | | | | |
| | | | | |
| <hr/> | | | | |
| | | | | |

Play again, this time playing to create the smallest number. Try to be strategic!