Bronze

1a. Use this multiplication fact to complete the calculations and find the odd one out.

$$22 \times 2 = 44$$

A.   22   X   20   =

B.   220   X   2   =

C.   220   X   20   =

VF

1b. Joseph is using $3 \times 4 = 12$ to solve other calculations.

> I think that 300 x 4 will give the same answer as 40 x 3.

Joseph

Is he correct? Explain how you know.

R

2a. Complete the statement to make it true.

If 180 x 4 = 640 then 180 x 40 = _____

VF

2b. Circle the calculation that does not relate to the number fact below.

$$420 \times 10 = 4{,}200$$

A.   4,200   ÷   10   =   420

B.   420   X   20   =   8,400

C.   4,200   X   2   =   8,400

Explain your reasoning.

R

3a. Use this division fact to check the answers to the calculations below. Tick the correct calculations.

$$750 \div 30 = 25$$

A.   25   X   30   =   75   ☐

B.   75   ÷   3   =   25   ☐

C.   750   ÷   3   =   250   ☐

VF

3b. The target number is below.

320

Here is a related number fact.

$$3{,}200 \div 10 = 320$$

Use all the digit cards and symbols to create related number sentences that equal the target number.

÷

6,400   640   20

2   9,600   30

PS

4a. Match the calculations to the correct answer. Use the number fact to help you.

$$9{,}000 \div 3 = 3{,}000$$

A   3 x 3   90

B   3,000 x 3   9

C   30 x 3   9,000

VF

5a. Use this multiplication fact to complete the calculations and find the odd one out.

$$340 \times 3 = 1,020$$

A.   30 $\times$ 340   =

B.   3,400 $\times$ 3   =

C.   34 $\times$ 30   =

VF

6a. Complete the statement to make it true.

If $8 \times 120 =$ _____ then $80 \times 120 =$ _____

VF

7a. Use this division fact to check the answers to the calculations below. Tick the correct calculations.

$$9,200 \div 200 = 46$$

A.   200 $\times$ 46   =   9,200   ☐

B.   920 $\div$ 20   =   460   ☐

C.   9,200 $\div$ 20   =   46   ☐

VF

8a. Match the calculations to the correct answer.

A   7 x 1,200   840

B   7 x 120   84,000

C   7 x 12,000   8,400

VF

4b. Jake is using $23 \times 4 = 92$ to solve other calculations.

I think that 23 x 40 will give the same answer as 2,300 x 4. They both equal 9,200.

Jake

Is he correct? Explain how you know.

R

5b. Circle the calculation that does not relate to the number fact below.

$$4,500 \div 90 = 50$$

A.   450 $\div$ 90   =   5

B.   50 $\times$ 45   =   2,250

C.   4,500 $\div$ 4   =   1,125

Explain your reasoning.

R

6b. The target number is below.

$$8,800$$

Use all the digit cards and symbols to create related number sentences that equal the target number.

x $\div$

5   10   80   35,200

880   110   4   44,000

PS

Gold

9a. Using your knowledge of multiplication facts, complete the calculations and find the odd one out.

    A.   5,600 ÷ 16 =

    B.   35 × 100 =

    C.   2,800 ÷ 8 =

VF

10a. Complete the statement to make it true.

If 7 × 21 = ___ then 700 × 210 = _____

VF

11a. Complete this division fact and use it to check the answers to the calculations below. Tick the correct calculations.

15,000 ÷ 300 = __

A. three thousand × 50 = 15,000 ☐

B. 1,500 ÷ thirty = 50 ☐

C. 15,000 ÷ 30 = five hundred ☐

VF

12a. Match the calculations to the correct answer.

A eighty multiplied by one hundred and forty   11,200

B the product of eight thousand and fourteen   one hundred and twelve thousand

C 80 × 14,000   1, 120,000

VF

7b. Julian is using his knowledge of multiples of 10, 100 and 1,000 to solve calculations.

> I think that 41,000 x 2 will give the same answer as 410 x 20. They both equal 82,000.

Julian

Is he correct? Explain how you know.

R

8b. Circle the calculation that does not relate to the number fact below.

5,600 x 20 = 112,000

A. 112,000 ÷ 20 = 5,600

B. 560 × 400 = 224,000

C. 2,300 × 6 = 13,800

Explain your reasoning.

R

9b. The target number is below.

nine thousand, nine hundred

Use all the digit cards and symbols to create related number sentences that equal the target number.

| x | ÷ |

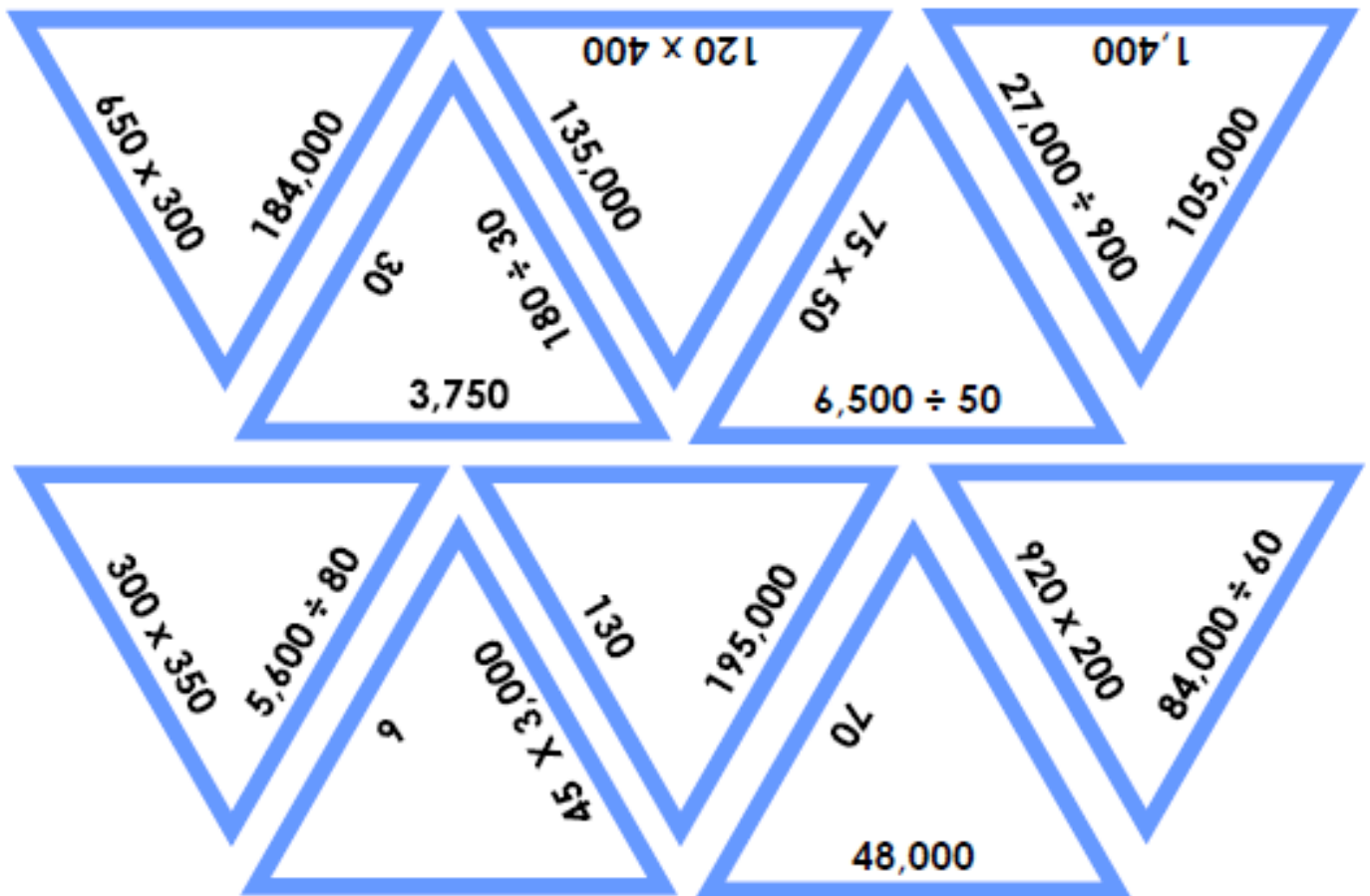three hundred 19,800 thirty three two

49,500 sixty six 5 150

PS

Challenge

1. Match the calculations to the correct answers to complete the puzzle.

Triangle puzzle pieces (tarsia):
- 650 × 300
- 184,000
- 30
- 120 × 400
- 135,000
- 180 ÷ 30
- 3,750
- 75 × 50
- 27,000 ÷ 900
- 1,400
- 105,000
- 6,500 ÷ 50
- 300 × 350
- 5,600 ÷ 80
- 9
- 130
- 45 × 3,000
- 195,000
- 70
- 920 × 200
- 84,000 ÷ 60
- 48,000

2. Juliet needs to find an exit route for the maze below. To move, she must multiply or divide the number she is on by a multiple of 10, 100 or 1,000.

Start?	420	410	1,750	180	90,000	Exit?
Start?	4,200	7	14,000	14	150	Exit?
Start?	40	16,000	800	160	2	Exit?
Start?	3,500	60,000	48,000	1,600	500	Exit?

Explore the possible routes Juliet could take to exit the maze.