

$\times$ and $\div$ by 10, 100 and 1,000

Times 10, every digit moves one place to the left.

Multiply. Write each digit in its new place. Draw arrows to show the moves.

Example	Ten Thousands	Thousands	Hundreds	Tens	Ones
54				5	4
$\times 10$					
= 540			5	4	0

1.	Ten Thousands	Thousands	Hundreds	Tens	Ones
308			3	0	8
$\times 100$					
=					

2.	Ten Thousands	Thousands	Hundreds	Tens	Ones
61				6	1
$\times 1,000$					
=					

Multiply without the chart.

Fill in the missing number.

3. $47 \times 100 =$ _____

7. _____ is 10 times as much as 60

4. $260 \times 10 =$ _____

8. 4,000 is _____ times as much as 40

5. $9 \times 1,000 =$ _____

9. 900 is 10 times as much as _____

6. $705 \times 100 =$ _____

10. 8,000 is 1,000 times as much as _____

$\times$ and $\div$ by 10, 100 and 1,000

Use a fact you know. Then count the zeros.

Multiply. Look at the pattern of zeros.

Example

$$\begin{aligned}3 \times 6 &= \underline{18} \\3 \times 60 &= \underline{180} \\3 \times 600 &= \underline{1,800} \\3 \times 6,000 &= \underline{18,000}\end{aligned}$$

1.

$$\begin{aligned}4 \times 7 &= \underline{\hspace{2cm}} \\4 \times 70 &= \underline{\hspace{2cm}} \\4 \times 700 &= \underline{\hspace{2cm}} \\4 \times 7,000 &= \underline{\hspace{2cm}}\end{aligned}$$

2.

$$\begin{aligned}2 \times 5 &= \underline{\hspace{2cm}} \\2 \times 50 &= \underline{\hspace{2cm}} \\2 \times 500 &= \underline{\hspace{2cm}} \\2 \times 5,000 &= \underline{\hspace{2cm}}\end{aligned}$$

3.

$$\begin{aligned}6 \times 9 &= \underline{\hspace{2cm}} \\6 \times 90 &= \underline{\hspace{2cm}} \\6 \times 900 &= \underline{\hspace{2cm}} \\6 \times 9,000 &= \underline{\hspace{2cm}}\end{aligned}$$

Use place value: 3×7 hundreds = 21 hundreds.

Example

$$3 \times 700 = 3 \times \underline{7} \text{ hundreds} = \underline{21} \text{ hundreds} = \underline{2,100}$$

4. $4 \times 600 = 4 \times \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{2cm}}$

5. $5 \times 70 = 5 \times \underline{\hspace{1cm}} \text{ tens} = \underline{\hspace{1cm}} \text{ tens} = \underline{\hspace{2cm}}$

6. $9 \times 4,000 = 9 \times \underline{\hspace{1cm}} \text{ thousands} = \underline{\hspace{1cm}} \text{ thousands} = \underline{\hspace{2cm}}$

7. $7 \times 600 = 7 \times \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{2cm}}$

8. $8 \times 500 = 8 \times \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{2cm}}$

$\times$ and $\div$ by 10, 100 and 1,000

Multiply by multiples of 10, 100 and 1,000.

Example

$4 \times 5,000$: think $4 \times 5 = 20$, then write the 3 zeros of 5,000.

$4 \times 5,000 = 20,000$. It has 4 zeros: 1 from 20 and 3 from 5,000.

Multiply. Think of the fact, then the zeros.

1. $2 \times 70 =$ _____	2. $3 \times 500 =$ _____	3. $2,000 \times 4 =$ _____
4. $5 \times 30 =$ _____	5. $6 \times 300 =$ _____	6. $7 \times 3,000 =$ _____
7. $400 \times 8 =$ _____	8. $9 \times 60 =$ _____	9. $2 \times 3,000 =$ _____
10. $300 \times 4 =$ _____	11. $5 \times 2,000 =$ _____	12. $50 \times 6 =$ _____
13. $7 \times 200 =$ _____	14. $8 \times 9,000 =$ _____	15. $700 \times 9 =$ _____
16. $3 \times 20 =$ _____	17. $4 \times 500 =$ _____	18. $7,000 \times 6 =$ _____
19. $7 \times 60 =$ _____	20. $30 \times 8 =$ _____	21. $5 \times 6,000 =$ _____
22. $9 \times 8,000 =$ _____	23. $600 \times 2 =$ _____	24. $3 \times 8,000 =$ _____

Write $>$, $<$, or $=$ in each circle.

25. 5×400 $2 \times 1,000$

28. 8×200 4×400

26. 4×40 2×60

29. $9 \times 2,000$ $3 \times 5,000$

27. 2×900 5×500

30. 6×400 5×700

$\times$ and $\div$ by 10, 100 and 1,000

Divide tens, hundreds and thousands with a fact you know.

Divide. Look at the pattern of zeros.

Example

$$42 \div 6 = \underline{7}$$

$$420 \div 6 = \underline{70}$$

$$4,200 \div 6 = \underline{700}$$

1. $40 \div 8 = \underline{\hspace{2cm}}$

$$400 \div 8 = \underline{\hspace{2cm}}$$

$$4,000 \div 8 = \underline{\hspace{2cm}}$$

2. $27 \div 3 = \underline{\hspace{2cm}}$

$$270 \div 3 = \underline{\hspace{2cm}}$$

$$2,700 \div 3 = \underline{\hspace{2cm}}$$

3. $56 \div 7 = \underline{\hspace{2cm}}$

$$560 \div 7 = \underline{\hspace{2cm}}$$

$$5,600 \div 7 = \underline{\hspace{2cm}}$$

Use place value: 24 hundreds $\div$ 6 = 4 hundreds.

Example

$$2,400 \div 6 = \underline{24} \text{ hundreds} \div 6 = \underline{4} \text{ hundreds} = \underline{400}$$

4. $350 \div 7 = \underline{\hspace{1cm}}$ tens $\div 7 = \underline{\hspace{1cm}}$ tens = $\underline{\hspace{2cm}}$

5. $3,000 \div 5 = \underline{\hspace{1cm}}$ hundreds $\div 5 = \underline{\hspace{1cm}}$ hundreds = $\underline{\hspace{2cm}}$

6. $4,800 \div 8 = \underline{\hspace{1cm}}$ hundreds $\div 8 = \underline{\hspace{1cm}}$ hundreds = $\underline{\hspace{2cm}}$

Divide by 10, 100 or 1,000. Each digit moves right.

7. $6,300 \div 10 = \underline{\hspace{2cm}}$

8. $48,000 \div 100 = \underline{\hspace{2cm}}$

9. $7,000 \div 1,000 = \underline{\hspace{2cm}}$

10. $2,500 \div 10 = \underline{\hspace{2cm}}$

11. $90,000 \div 1,000 = \underline{\hspace{2cm}}$

12. $3,100 \div 100 = \underline{\hspace{2cm}}$

$\times$ and $\div$ by 10, 100 and 1,000

Find the missing numbers. Then solve the stories.

Write the missing number.

Example

$2 \times 700 = 1,400$

1. _____ $\times 500 = 4,500$

2. $8 \times$ _____ $= 720$

3. $3,600 \div$ _____ $= 400$

4. _____ $\div 6 = 90$

5. $4,900 \div$ _____ $= 700$

6. _____ $\times 9 = 63,000$

7. $1,800 \div 2 =$ _____

Write an equation. Then solve.

Example

A school buys 6 boxes of paper. Each box has 500 sheets. How many sheets does the school buy?

Equation: $6 \times 500 = 3,000$

Answer: 3,000 sheets

8. A farm packs 3,200 eggs into 8 trucks, the same number in each truck. How many eggs go in each truck?

Equation: _____

Answer: _____ eggs

9. A train car carries 4,000 pounds of corn. How many pounds do 7 train cars carry?

Equation: _____

Answer: _____ pounds

10. A theater has 450 seats in rows of 9 seats. How many rows does the theater have?

Equation: _____

Answer: _____ rows

× and ÷ by 10, 100 and 1,000

Times 10, every digit moves one place to the left.

Multiply. Write each digit in its new place. Draw arrows to show the moves.

Example	Ten Thousands	Thousands	Hundreds	Tens	Ones
54				5	4
× 10					
= 540			5	4	0

1.	Ten Thousands	Thousands	Hundreds	Tens	Ones
308			3	0	8
× 100					
=					

2.	Ten Thousands	Thousands	Hundreds	Tens	Ones
61				6	1
× 1,000					
=					

Multiply without the chart.

Fill in the missing number.

3. 47 × 100 = _____
7. _____ is 10 times as much as 60
4. 260 × 10 = _____
8. 4,000 is _____ times as much as 40
5. 9 × 1,000 = _____
9. 900 is 10 times as much as _____
6. 705 × 100 = _____
10. 8,000 is 1,000 times as much as _____

$\times$ and $\div$ by 10, 100 and 1,000

Use a fact you know. Then count the zeros.

Multiply. Look at the pattern of zeros.

Example

$$\begin{aligned}3 \times 6 &= \underline{18} \\3 \times 60 &= \underline{180} \\3 \times 600 &= \underline{1,800} \\3 \times 6,000 &= \underline{18,000}\end{aligned}$$

1.

$$\begin{aligned}4 \times 7 &= \underline{\hspace{2cm}} \\4 \times 70 &= \underline{\hspace{2cm}} \\4 \times 700 &= \underline{\hspace{2cm}} \\4 \times 7,000 &= \underline{\hspace{2cm}}\end{aligned}$$

2.

$$\begin{aligned}2 \times 5 &= \underline{\hspace{2cm}} \\2 \times 50 &= \underline{\hspace{2cm}} \\2 \times 500 &= \underline{\hspace{2cm}} \\2 \times 5,000 &= \underline{\hspace{2cm}}\end{aligned}$$

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$$\begin{aligned}6 \times 9 &= \underline{\hspace{2cm}} \\6 \times 90 &= \underline{\hspace{2cm}} \\6 \times 900 &= \underline{\hspace{2cm}} \\6 \times 9,000 &= \underline{\hspace{2cm}}\end{aligned}$$

Use place value: 3×7 hundreds = 21 hundreds.

Example

$$3 \times 700 = 3 \times \underline{7} \text{ hundreds} = \underline{21} \text{ hundreds} = \underline{2,100}$$

4. $4 \times 600 = 4 \times \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{2cm}}$

5. $5 \times 70 = 5 \times \underline{\hspace{1cm}} \text{ tens} = \underline{\hspace{1cm}} \text{ tens} = \underline{\hspace{2cm}}$

6. $9 \times 4,000 = 9 \times \underline{\hspace{1cm}} \text{ thousands} = \underline{\hspace{1cm}} \text{ thousands} = \underline{\hspace{2cm}}$

7. $7 \times 600 = 7 \times \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{2cm}}$

8. $8 \times 500 = 8 \times \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{1cm}} \text{ hundreds} = \underline{\hspace{2cm}}$

$\times$ and $\div$ by 10, 100 and 1,000

Multiply by multiples of 10, 100 and 1,000.

Example

$4 \times 5,000$: think $4 \times 5 = 20$, then write the 3 zeros of 5,000.

$4 \times 5,000 = 20,000$. It has 4 zeros: 1 from 20 and 3 from 5,000.

Multiply. Think of the fact, then the zeros.

1. $2 \times 70 =$ _____	2. $3 \times 500 =$ _____	3. $2,000 \times 4 =$ _____
4. $5 \times 30 =$ _____	5. $6 \times 300 =$ _____	6. $7 \times 3,000 =$ _____
7. $400 \times 8 =$ _____	8. $9 \times 60 =$ _____	9. $2 \times 3,000 =$ _____
10. $300 \times 4 =$ _____	11. $5 \times 2,000 =$ _____	12. $50 \times 6 =$ _____
13. $7 \times 200 =$ _____	14. $8 \times 9,000 =$ _____	15. $700 \times 9 =$ _____
16. $3 \times 20 =$ _____	17. $4 \times 500 =$ _____	18. $7,000 \times 6 =$ _____
19. $7 \times 60 =$ _____	20. $30 \times 8 =$ _____	21. $5 \times 6,000 =$ _____
22. $9 \times 8,000 =$ _____	23. $600 \times 2 =$ _____	24. $3 \times 8,000 =$ _____

Write $>$, $<$, or $=$ in each circle.

25. 5×400 $2 \times 1,000$

28. 8×200 4×400

26. 4×40 2×60

29. $9 \times 2,000$ $3 \times 5,000$

27. 2×900 5×500

30. 6×400 5×700

$\times$ and $\div$ by 10, 100 and 1,000

Divide tens, hundreds and thousands with a fact you know.

Divide. Look at the pattern of zeros.

Example

$$\begin{array}{rcl} 42 \div 6 & = & 7 \\ 420 \div 6 & = & 70 \\ 4,200 \div 6 & = & 700 \end{array}$$

$$\begin{array}{rcl} 1. & 40 \div 8 & = \\ & 400 \div 8 & = \\ & 4,000 \div 8 & = \end{array}$$

$$\begin{array}{rcl} 2. & 27 \div 3 & = \\ & 270 \div 3 & = \\ & 2,700 \div 3 & = \end{array}$$

$$\begin{array}{rcl} 3. & 56 \div 7 & = \\ & 560 \div 7 & = \\ & 5,600 \div 7 & = \end{array}$$

Use place value: 24 hundreds $\div$ 6 = 4 hundreds.

Example $2,400 \div 6 =$ 24 hundreds $\div 6 =$ 4 hundreds $=$ 400

$$4. \quad 350 \div 7 = \text{ ______ } \text{ tens } \div 7 = \text{ ______ } \text{ tens } = \text{ ______ }$$

$$5. \quad 3,000 \div 5 = \text{ ______ } \text{ hundreds } \div 5 = \text{ ______ } \text{ hundreds } = \text{ ______ }$$

$$6. \quad 4,800 \div 8 = \text{ ______ } \text{ hundreds } \div 8 = \text{ ______ } \text{ hundreds } = \text{ ______ }$$

Divide by 10, 100 or 1,000. Each digit moves right.

$$7. \quad 6,300 \div 10 = \text{ ______ }$$

$$8. \quad 48,000 \div 100 = \text{ ______ }$$

$$9. \quad 7,000 \div 1,000 = \text{ ______ }$$

$$10. \quad 2,500 \div 10 = \text{ ______ }$$

$$11. \quad 90,000 \div 1,000 = \text{ ______ }$$

$$12. \quad 3,100 \div 100 = \text{ ______ }$$

$\times$ and $\div$ by 10, 100 and 1,000

Find the missing numbers. Then solve the stories.

Write the missing number.

Example

$$2 \times 700 = 1,400$$

1. _____ $\times 500 = 4,500$

2. $8 \times$ _____ $= 720$

3. $3,600 \div$ _____ $= 400$

4. _____ $\div 6 = 90$

5. $4,900 \div$ _____ $= 700$

6. _____ $\times 9 = 63,000$

7. $1,800 \div 2 =$ _____

Write an equation. Then solve.

Example

A school buys 6 boxes of paper. Each box has 500 sheets. How many sheets does the school buy?

Equation: $6 \times 500 = 3,000$

Answer: 3,000 sheets

8. A farm packs 3,200 eggs into 8 trucks, the same number in each truck. How many eggs go in each truck?

Equation: _____

Answer: _____ eggs

9. A train car carries 4,000 pounds of corn. How many pounds do 7 train cars carry?

Equation: _____

Answer: _____ pounds

10. A theater has 450 seats in rows of 9 seats. How many rows does the theater have?

Equation: _____

Answer: _____ rows

× and ÷ by 10, 100 and 1,000

Times 10, every digit moves one place to the left.

Multiply. Write each digit in its new place. Draw arrows to show the moves.

Example	Ten Thousands	Thousands	Hundreds	Tens	Ones
54				5	4
× 10					
= 540			5	4	0

1.	Ten Thousands	Thousands	Hundreds	Tens	Ones
308			3	0	8
× 100					
= 30,800	3	0	8	0	0

2.	Ten Thousands	Thousands	Hundreds	Tens	Ones
61				6	1
× 1,000					
= 61,000	6	1	0	0	0

Multiply without the chart.

Fill in the missing number.

3. $47 \times 100 = \underline{4,700}$

7. $\underline{600}$ is 10 times as much as 60

4. $260 \times 10 = \underline{2,600}$

8. 4,000 is $\underline{100}$ times as much as 40

5. $9 \times 1,000 = \underline{9,000}$

9. 900 is 10 times as much as $\underline{90}$

6. $705 \times 100 = \underline{70,500}$

10. 8,000 is 1,000 times as much as $\underline{8}$

× and ÷ by 10, 100 and 1,000

Use a fact you know. Then count the zeros.

Multiply. Look at the pattern of zeros.

Example

$$\begin{aligned} 3 \times 6 &= \underline{18} \\ 3 \times 60 &= \underline{180} \\ 3 \times 600 &= \underline{1,800} \\ 3 \times 6,000 &= \underline{18,000} \end{aligned}$$

$$\begin{aligned} 1. \quad 4 \times 7 &= \underline{28} \\ 4 \times 70 &= \underline{280} \\ 4 \times 700 &= \underline{2,800} \\ 4 \times 7,000 &= \underline{28,000} \end{aligned}$$

$$\begin{aligned} 2. \quad 2 \times 5 &= \underline{10} \\ 2 \times 50 &= \underline{100} \\ 2 \times 500 &= \underline{1,000} \\ 2 \times 5,000 &= \underline{10,000} \end{aligned}$$

$$\begin{aligned} 3. \quad 6 \times 9 &= \underline{54} \\ 6 \times 90 &= \underline{540} \\ 6 \times 900 &= \underline{5,400} \\ 6 \times 9,000 &= \underline{54,000} \end{aligned}$$

Use place value: 3×7 hundreds = 21 hundreds.

Example $3 \times 700 = 3 \times \underline{7} \text{ hundreds} = \underline{21} \text{ hundreds} = \underline{2,100}$

$$4. \quad 4 \times 600 = 4 \times \underline{6} \text{ hundreds} = \underline{24} \text{ hundreds} = \underline{2,400}$$

$$5. \quad 5 \times 70 = 5 \times \underline{7} \text{ tens} = \underline{35} \text{ tens} = \underline{350}$$

$$6. \quad 9 \times 4,000 = 9 \times \underline{4} \text{ thousands} = \underline{36} \text{ thousands} = \underline{36,000}$$

$$7. \quad 7 \times 600 = 7 \times \underline{6} \text{ hundreds} = \underline{42} \text{ hundreds} = \underline{4,200}$$

$$8. \quad 8 \times 500 = 8 \times \underline{5} \text{ hundreds} = \underline{40} \text{ hundreds} = \underline{4,000}$$

$\times$ and $\div$ by 10, 100 and 1,000

Multiply by multiples of 10, 100 and 1,000.

Example

$4 \times 5,000$: think $4 \times 5 = 20$, then write the 3 zeros of 5,000.

$4 \times 5,000 = 20,000$. It has 4 zeros: 1 from 20 and 3 from 5,000.

Multiply. Think of the fact, then the zeros.

1. $2 \times 70 =$ <u>140</u>	2. $3 \times 500 =$ <u>1,500</u>	3. $2,000 \times 4 =$ <u>8,000</u>
4. $5 \times 30 =$ <u>150</u>	5. $6 \times 300 =$ <u>1,800</u>	6. $7 \times 3,000 =$ <u>21,000</u>
7. $400 \times 8 =$ <u>3,200</u>	8. $9 \times 60 =$ <u>540</u>	9. $2 \times 3,000 =$ <u>6,000</u>
10. $300 \times 4 =$ <u>1,200</u>	11. $5 \times 2,000 =$ <u>10,000</u>	12. $50 \times 6 =$ <u>300</u>
13. $7 \times 200 =$ <u>1,400</u>	14. $8 \times 9,000 =$ <u>72,000</u>	15. $700 \times 9 =$ <u>6,300</u>
16. $3 \times 20 =$ <u>60</u>	17. $4 \times 500 =$ <u>2,000</u>	18. $7,000 \times 6 =$ <u>42,000</u>
19. $7 \times 60 =$ <u>420</u>	20. $30 \times 8 =$ <u>240</u>	21. $5 \times 6,000 =$ <u>30,000</u>
22. $9 \times 8,000 =$ <u>72,000</u>	23. $600 \times 2 =$ <u>1,200</u>	24. $3 \times 8,000 =$ <u>24,000</u>

Write $>$, $<$, or $=$ in each circle.

25. 5×400 $\textcircled{=}$ $2 \times 1,000$

28. 8×200 $\textcircled{=}$ 4×400

26. 4×40 $\textcircled{>}$ 2×60

29. $9 \times 2,000$ $\textcircled{>}$ $3 \times 5,000$

27. 2×900 $\textcircled{<}$ 5×500

30. 6×400 $\textcircled{<}$ 5×700

× and ÷ by 10, 100 and 1,000

Divide tens, hundreds and thousands with a fact you know.

Divide. Look at the pattern of zeros.

Example

$$\begin{array}{rcl} 42 \div 6 & = & 7 \\ 420 \div 6 & = & 70 \\ 4,200 \div 6 & = & 700 \end{array}$$

$$\begin{array}{rcl} 1. \quad 40 \div 8 & = & 5 \\ 400 \div 8 & = & 50 \\ 4,000 \div 8 & = & 500 \end{array}$$

$$\begin{array}{rcl} 2. \quad 27 \div 3 & = & 9 \\ 270 \div 3 & = & 90 \\ 2,700 \div 3 & = & 900 \end{array}$$

$$\begin{array}{rcl} 3. \quad 56 \div 7 & = & 8 \\ 560 \div 7 & = & 80 \\ 5,600 \div 7 & = & 800 \end{array}$$

Use place value: 24 hundreds ÷ 6 = 4 hundreds.

Example $2,400 \div 6 = \underline{24}$ hundreds $\div 6 = \underline{4}$ hundreds = $\underline{400}$

$$4. \quad 350 \div 7 = \underline{35} \text{ tens} \div 7 = \underline{5} \text{ tens} = \underline{50}$$

$$5. \quad 3,000 \div 5 = \underline{30} \text{ hundreds} \div 5 = \underline{6} \text{ hundreds} = \underline{600}$$

$$6. \quad 4,800 \div 8 = \underline{48} \text{ hundreds} \div 8 = \underline{6} \text{ hundreds} = \underline{600}$$

Divide by 10, 100 or 1,000. Each digit moves right.

$$7. \quad 6,300 \div 10 = \underline{630}$$

$$8. \quad 48,000 \div 100 = \underline{480}$$

$$9. \quad 7,000 \div 1,000 = \underline{7}$$

$$10. \quad 2,500 \div 10 = \underline{250}$$

$$11. \quad 90,000 \div 1,000 = \underline{90}$$

$$12. \quad 3,100 \div 100 = \underline{31}$$

× and ÷ by 10, 100 and 1,000

Find the missing numbers. Then solve the stories.

Write the missing number.

Example

$2 \times \underline{700} = 1,400$

1. $\underline{9} \times 500 = 4,500$

2. $8 \times \underline{90} = 720$

3. $3,600 \div \underline{9} = 400$

4. $\underline{540} \div 6 = 90$

5. $4,900 \div \underline{7} = 700$

6. $\underline{7,000} \times 9 = 63,000$

7. $1,800 \div 2 = \underline{900}$

Write an equation. Then solve.

Example

A school buys 6 boxes of paper. Each box has 500 sheets. How many sheets does the school buy?

Equation: $\underline{6 \times 500 = 3,000}$

Answer: $\underline{3,000}$ sheets

8. A farm packs 3,200 eggs into 8 trucks, the same number in each truck. How many eggs go in each truck?

Equation: $\underline{3,200 \div 8 = 400}$

Answer: $\underline{400}$ eggs

9. A train car carries 4,000 pounds of corn. How many pounds do 7 train cars carry?

Equation: $\underline{7 \times 4,000 = 28,000}$

Answer: $\underline{28,000}$ pounds

10. A theater has 450 seats in rows of 9 seats. How many rows does the theater have?

Equation: $\underline{450 \div 9 = 50}$

Answer: $\underline{50}$ rows