## Distributive Law Multiplication Problems

Aim: To solve multiplication problems using the distributive law.
Distributive law helps us to solve multiplication problems by partitioning larger numbers.

For example:

$$
16 \times 3=10 \times 3+6 \times 3=30+18=48
$$

Use the distributive law to solve these multiplication problems:


Use the distributive law to solve these multiplication word problems. Show your working out.
5. Adam buys 8 packets of biscuits. There are 17 biscuits in each packet. How many biscuits does he have?

## Distributive Law Multiplication Problems

6. Miss Green buys 3 boxes of pencils for her class. There are 26 pencils in a box. How many pencils did she buy in total?
7. Apples cost 32 p. Eve buys 5 apples. How much does she need to pay?
8. Anya buys 4 tubes of sweets. There are 38 sweets in each tube. How many sweets does she have?

## Distributive Law Multiplication Problems <br> Answers



# Distributive Law Multiplication Problems 

Aim: To solve multiplication problems using the distributive law.
Distributive law helps us to solve multiplication problems by partitioning larger numbers.

For example:

$$
36 \times 7=30 \times 7+6 \times 7=210+42=252
$$

Use the distributive law to solve these multiplication problems:

1. $38 \times 5=\square \times 5+\square \times 5=\square+\square=\square$
2. $53 \times 6=\square \times 6+\square \times 6=\square+\square=\square$
3. $64 \times 8=\square \times 8+\square \times 8=\square+\square=\square$
4. $45 \times 9=\square \times 9+\square \times 9=\square+\square$

Use the distributive law to solve these multiplication word problems. Show your working out.
5. Adam buys 8 packets of biscuits. There are 37 biscuits in each packet. How many biscuits does he have?

## Distributive Law Multiplication Problems

6. Miss Green buys 7 boxes of pencils for her class. There are 46 pencils in a box. How many pencils did she buy in total?
7. Apples cost 52 p. Eve buys 6 apples. How much does she need to pay?
8. Anya buys 9 tubes of sweets. There are 68 sweets in each tube. How many sweets does she have?

## Distributive Law Multiplication Problems <br> Answers

1. $38 \times 5=30 \times 5+8 \times 5=150+40=190$
2. $53 \times 6=50 \times 6+3 \times 6=300+18=318$
3. $64 \times 8=60 \times 8+4 \times 8=480+32=512$
4. $45 \times 9=40 \times 9+5 \times 9=360+45=405$
5. $37 \times 8=30 \times 8+7 \times 8=240+56=296$
6. $46 \times 7=40 \times 7+6 \times 7=280+42=322$
7. $52 \mathrm{p} \times 6=50 \times 6+2 \times 6=300+12=\begin{gathered}312 \mathrm{p} \\ \text { or } \\ £ 3.12\end{gathered}$
8. $68 \times 9=60 \times 9+8 \times 9=540+72=612$

# Distributive Law Multiplication Problems 

Aim: To solve multiplication problems using the distributive law.
Distributive law helps us to solve multiplication problems by partitioning larger numbers.

For example:
$67 \times 8=60 \times 8+7 \times 8=480+56=536$
Use the distributive law to solve these multiplication problems:

1. $58 \times 5=\square \times 5+\square \times 5=\square+\square=\square$
2. $73 \times 6=\square \times 6+\square \times 6=\square+\square=\square$
3. $84 \times 8=\square \times 8+\square \times 8=\square+\square=\square$
4. $95 \times 9=\square \times 9+\square \times 9=\square+\square$

Use the distributive law to solve these multiplication word problems. Show your working out.
5. Adam buys 8 packets of biscuits. There are 76 biscuits in each packet. How many biscuits does he have?

## Distributive Law Multiplication Problems

6. Miss Green buys 7 boxes of pencils for her class. There are 84 pencils in a box. How many pencils did she buy in total?
7. Apples cost 92 p. Eve buys 6 apples. How much does she need to pay?
8. Anya buys 9 tubes of sweets. There are 87 sweets in each tube. How many sweets does she have?

## Distributive Law Multiplication Problems <br> Answers



