

# Multiplication Problems

## Parents Notes:

Children in year 2 are expected to know the multiplication facts in the 2x, 5x and 10x tables, and the related division facts. Once they are secure with their understanding of these operations, they can use this knowledge to solve problems. When solving word problems, children are taught to read the problem, identify the key information, work out the answer and relate it back to the original problem.

# Multiplication Problems

Can you solve these word problems?

Read the problem carefully, underline the key information, write a number sentence and then write the answer. The first one has been done for you.

1. Six children have 5 biscuits each. How many biscuits are there altogether?

$$6 \times 5 = 30$$

30 biscuits altogether

2. Three rabbits have 2 carrots each. How many carrots are there altogether?

3. Sam has three 10p pieces in his pocket. How much money does he have altogether?

4. A flower has 5 petals. How many petals do 9 flowers have?

5. There are five pencils in a pack. Mrs Jones needs 32 pencils. She says, 'I must buy 8 packs.' Is she right? Explain your answer.

Challenge: Will there be any pencils left over? If so, how many?

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1. Sam has three 10p pieces in his pocket. How much money does he have altogether?

3 x 10 = 30

30p altogether

2. A flower has five petals. How many petals do 9 flowers have?

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3. There are five pencils in a pack. Mrs Jones needs 32 pencils for her class. She says, 'I must buy 7 packs.' Is she right? Explain your answer.

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Will there be any pencils left over? If so, how many?

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4. Mo has four bags of marbles with 5 marbles in each. Kyle has 3 bags of marbles with 10 marbles in each. Who has the most marbles?

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5. Bananas are 10p each. Priya wants to buy seven bananas. She has twelve 5p pieces. Does she have enough money? Explain your answer.

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There are five pencils in a pack. Mrs Jones needs 32 pencils for her class. She says, 'I must buy 8 packs.' Is she right? Explain your answer.

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Will there be any pencils left over? If so, how many?

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2. Mo has four bags of marbles with 5 marbles in each. Kyle has 3 bags of marbles with 10 marbles in each. Who has the most marbles?

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3. Bananas are 10p each. Priya wants to buy seven bananas. She has twelve 5p pieces. Does she have enough money? Explain your answer.

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4. Balloons come in packs of 5 and 10. Sophie has 35 balloons. How many of each pack does she have? Are there other ways to do it?

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5. Joe and Salim are sharing some sweets. They have five packs of sweets, and once they have shared them they have 15 sweets each. How many sweets are in each packet?

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# Answers

## Can you solve these word problems?

Read the problem carefully, underline the key information, write a number sentence and then write the answer. The first one has been done for you.

1. Six children have 5 biscuits each. How many biscuits are there altogether?

$$6 \times 5 = 30$$

**30 biscuits altogether**

2. Three rabbits have 2 carrots each. How many carrots are there altogether?

$$3 \times 2 = 6$$

**6 carrots**

3. Sam has three 10p pieces in his pocket. How much money does he have altogether?

$$3 \times 10 = 30$$

**30p**

4. A flower has 5 petals. How many petals do 9 flowers have?

$$5 \times 9 = 45$$

**45 petals**

5. There are five pencils in a pack. Mrs Jones needs 32 pencils. She says, 'I must buy 8 packs.' Is she right? Explain your answer.

**$7 \times 5 = 35$  Yes, Mrs Jones will need 7 packs, because 6 packs is not enough ( $5 \times 6 = 30$ ).**

Challenge: Will there be any pencils left over? If so, how many?

**$35 - 32 = 3$  There will be 3 pencils left over.**

# Answers

## Can you solve these word problems?

Read the problem carefully, underline the key information, write a number sentence and then write the answer. The first one has been done for you.

1. Sam has three 10p pieces in his pocket. How much money does he have altogether?

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$$3 \times 10 = 30$$

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**30p altogether**

2. A flower has five petals. How many petals do 9 flowers have?

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$$5 \times 9 = 45$$

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**45 petals**

3. There are five pencils in a pack. Mrs Jones needs 32 pencils for her class. She says, 'I must buy 7 packs.' Is she right? Explain your answer.

**$7 \times 5 = 35$  Yes, Mrs Jones is right because 6 packs will not be enough ( $7 \times 4 = 28$ ).**

Will there be any pencils left over? If so, how many?

**$35 - 32 = 3$  There will be 3 pencils left over.**

4. Mo has four bags of marbles with 5 marbles in each. Kyle has 3 bags of marbles with 10 marbles in each. Who has the most marbles?

**Mo has  $4 \times 5 = 20$  marbles. Kyle has  $3 \times 10 = 30$  marbles. Kyle has the most marbles.**

5. Bananas are 10p each. Priya wants to buy seven bananas. She has twelve 5p pieces. Does she have enough money? Explain your answer.

**$7 \times 10 = 70$  so seven bananas will cost 70p.**

**Priya has  $12 \times 5 = 60p$  so she doesn't have enough money.**

# Answers

## Can you solve these word problems?

Read the problem carefully, underline the key information, write a number sentence and then write the answer.

1. There are five pencils in a pack. Mrs Jones needs 32 pencils for her class. She says, 'I must buy 8 packs.' Is she right? Explain your answer.

**$8 \times 5 = 40$  Mrs Jones only needs 32 pencils so she could buy 7 packs**

**$(7 \times 5 = 35)$ .**

Will there be any pencils left over? If so, how many?

**$35 - 32 = 3$  There will be 3 pencils left over.**

2. Mo has four bags of marbles with 5 marbles in each. Kyle has 3 bags of marbles with 10 marbles in each. Who has the most marbles?

**Mo has  $4 \times 5 = 20$  marbles. Kyle has  $3 \times 10 = 30$  marbles. Kyle has the most marbles.**

3. Bananas are 10p each. Priya wants to buy seven bananas. She has twelve 5p pieces. Does she have enough money? Explain your answer.

**$7 \times 10 = 70$  so seven bananas will cost 70p. Priya has  $12 \times 5 = 60p$  so she doesn't have enough.**

4. Balloons come in packs of 5 and 10. Sophie has 35 balloons. How many of each pack does she have? Are there other ways to do it?

**$7 \times 5 = 35$  so she could have seven packs. Or she could have 3 packs of 10 ( $3 \times 10 = 30$ ) plus one pack of 5 ( $30 + 5 = 35$ ).**

5. Joe and Salim are sharing some sweets. They have five packs of sweets, and once they have shared them they have 15 sweets each. How many sweets are in each packet?

**If they have 15 sweets each, there must be 30 sweets in total ( $15 \times 2 = 30$ ). If there are five packs of sweets there must be 6 in each pack ( $30 \div 5 = 6$ ).**