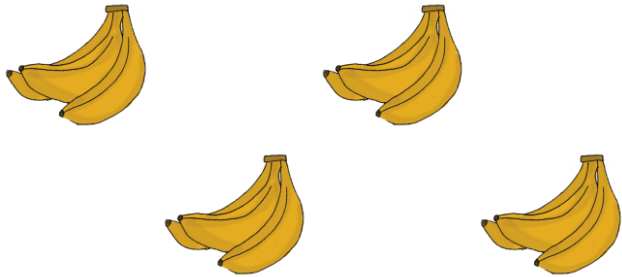


## Multiply by 3

1a. Rosie has 4 bunches of bananas.

Each bunch contains 3 bananas.



How many bananas are there altogether?  
Prove it.



R

## Multiply by 3

1b. Laura has 6 jars of marbles.

Each jar contains 3 marbles.



How many marbles are there altogether?  
Prove it.



R

2a. Wendy has 3 packs of 7 balloons.

There are 20 children at the disco.

Wendy says,



I can give every child a balloon.



Is she correct? Explain how you know.



R

2b. Lin has 3 packets of 2 pencils.

There are 6 children who need a pencil.

Lin says,



I don't have enough pencils for every child.



Is she correct? Explain how you know.

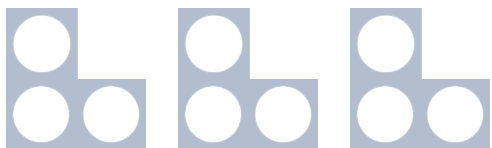


R

3a. Stanley is thinking of a number.

When he multiplies the number by 3, the answer is less than 10 but more than 6.

What number is Stanley thinking of?



PS

3b. Becky is thinking of a number.

When she multiplies the number by 3, the answer is less than 18 but more than 13.

What number is Becky thinking of?



PS

## Multiply by 3

4a. Jane has 5 packs of pencils.

Each pack contains 3 pencils.



How many pencils are there altogether?  
Prove it.

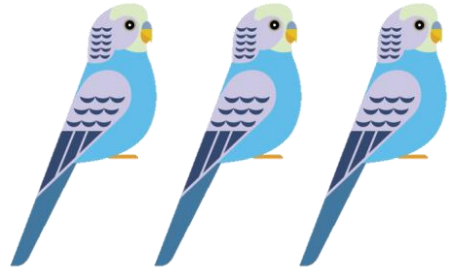


R

## Multiply by 3

4b. Robert has 6 bird cages.

Each cage contains 3 birds.



How many birds are there altogether?  
Prove it.



R

5a. Henry has 3 packs of 6 cupcakes.  
There are 15 friends coming to his party.  
Henry says,



I have enough  
cupcakes for every  
friend to have one.

Is he correct? Explain how you know.



R

5b. Eden has 3 bags with 7 sports kits in.  
There are 21 children who need a kit.  
Eden says,



I don't have enough kits  
for every child.

Is she correct? Explain how you know.

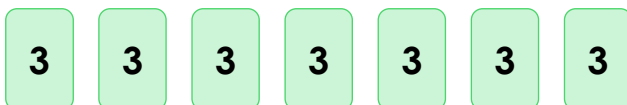


R

6a. Hannah is thinking of a number.

When she multiplies the number by 3, the  
answer is less than 24 but more than 20.

What number is Hannah thinking of?

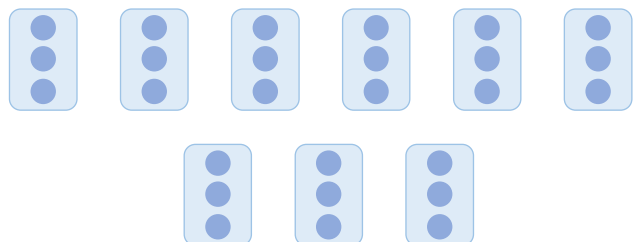


PS

6b. Finley is thinking of a number.

When he multiplies the number by 3, the  
answer is less than 30 but more than 25.

What number is Finley thinking of?



PS

## Reasoning and Problem Solving Multiply by 3

### Developing

- 1a. 12 bananas because  $3 + 3 + 3 + 3 = 12$ .  
2a. Wendy is correct because  $3 \times 7 = 21$  so there will be 1 balloon left over.  
3a. 3

### Expected

- 4a. 15 pencils because  $5 \times 3 = 15$ .  
5a. Henry is correct because  $3 \times 6 = 18$  so there will be 3 cupcakes left over.  
6a. 7

### Greater Depth

- 7a. 36 doughnuts because  $12 \times 3 = 36$ .  
8a. Ali is incorrect because  $3 \times 7 = 21$  so he has one biscuit left over.  
9a. 9

## Reasoning and Problem Solving Multiply by 3

### Developing

- 1b. 18 marbles because  $3 + 3 + 3 + 3 + 3 + 3 = 18$ .  
2b. Nicola is incorrect because  $3 \times 2 = 6$  so she will have enough pens for everyone.  
3b. 5

### Expected

- 4b. 18 birds because  $6 \times 3 = 18$ .  
5b. Stephanie is incorrect because  $3 \times 7 = 21$  so she has enough kits for everyone.  
6b. 9

### Greater Depth

- 7b. 27 dogs because  $9 \times 3 = 27$ .  
8b. Elsie is incorrect because  $11 \times 3 = 33$  so she doesn't have enough pens for everyone in her class.  
9b. 4 or 7