1) a) Children should draw a blue square, a blue circle, a blue triangle, a blue rectangle, a green square, a green circle, a green triangle and a green rectangle.

b)

Shape	square	circle	triangle	rectangle	square	circle	triangle	rectangle
Colour	blue	blue	blue	blue	green	green	green	green

2) Vanilla and a cherry   Strawberry and a cherry   Chocolate and a cherry

Vanilla and a flake   Strawberry and a flake   Chocolate and a flake

Vanilla and sprinkles   Strawberry and sprinkles   Chocolate and sprinkles

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1) a) *3 × 4 = 12*

There are **12** different combinations.

2) *9*

3) a) *Saif and Robin are correct.*

b) *Saif's way is the best because it is quicker. He can calculate the answer without having to find all the different possibilities.*

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1) a)

Size of Pizza	Pizza Topping	Number of Different Pizzas
small pizza base medium pizza base large pizza base	pepperoni	*3*
	pepperoni mushroom	*6*
	pepperoni mushroom olives	*9*

b) *The answer goes up by 3 each time.*

c) *There are always three pizza bases, but one more topping is added each time, so the number to be multiplied by 3 increases by 1.*

d) *30*

2) a) *5*

b) *There are 8 different possibilities:*

1 size of pizza and 24 toppings   *12 sizes of pizza and 2 toppings*   *4 sizes of pizza and 6 toppings*

24 sizes of pizza and 1 topping   *3 sizes of pizza and 8 toppings*   *6 sizes of pizza and 4 toppings*

2 sizes of pizza and 12 toppings   *8 sizes of pizza and 3 toppings*

c) *No. 24 is not in the 5 times table, so 5 lots of toppings would not multiply with another number to make 24 different kinds of pizzas.*