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Tree Diagram Example

At the start of a game, there are 3 balls in a bag: 1 red, 1 blue, and 1 green. The probability of drawing a red ball is $\frac{1}{3}$, the probability of drawing a blue ball is $\frac{1}{3}$, and the probability of drawing a green ball is $\frac{1}{3}$.

Let these outcomes be R, B, and G.

The probability of drawing two balls is:

RR = $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$
 RB = $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$
 BR = $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$
 BB = $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$
 RG = $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$
 GR = $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$
 BG = $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$
 GB = $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$
 GG = $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$



Exponents Worksheet Name _____

Evaluate to a single number.

- $3^3 + 5^2 =$
- $4^4 + 6^3 =$
- $7^3 + 5^4 =$
- Simplify, $-4^3 \times 3^4 =$
- $8^4 \times 3^{-2} =$
- $6^{-3} \times 4^{-3} =$
- $(8x)^0(12x)^3 =$
- $(12x)^2(13x)^2 =$
- $(21x)^2(14x)^3 =$
- $(34x)^2(19x)^3 =$
- $f(x) = (-2x)^2 + (4x)$
- $f(x) = (22x)^0 + (11x)^2$

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Name: _____
 Date: _____
 Time: _____

Robert has 5 toy airplanes inside a box of different colors: blue, yellow, green, red and purple.

- What is the probability that Robert will grab two airplanes of the same color?
 - higher than the probability that he will grab a blue airplane
 - impossible: zero probability
 - less than the probability that he will grab a blue airplane

Answers: (a) (b) (c) Circle the correct answer.
- What is the probability, in number form, that he will grab a red airplane?
 - $\frac{1}{5}$
 - $\frac{1}{3}$
 - $\frac{2}{5}$

Answers: (a) (b) (c) Circle the correct answer.
- If Robert adds one red airplane and one yellow airplane to the box, now what is the probability that he will pick out a red airplane (in number form)?
 - 1 out of 6
 - 2 out of 7
 - 1 out of 5

Answers: (a) (b) (c) Circle the correct answer.
- Which of the following will be true after Robert adds a red and yellow plane to the box?
 - It is more likely that Robert will pick out a blue airplane
 - It is less likely that Robert will pick out a yellow airplane
 - It is equally as likely that Robert will pick out a yellow airplane or a red airplane

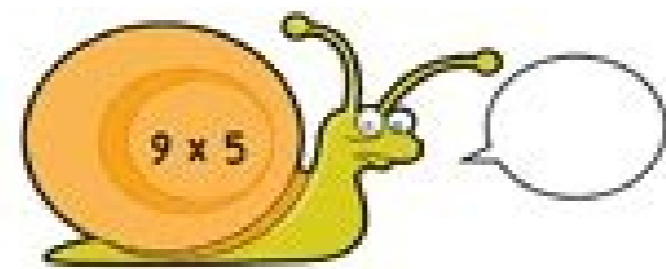
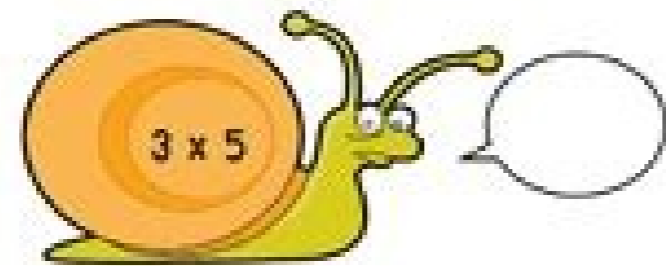
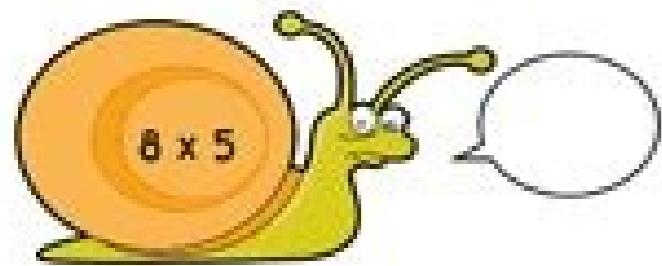
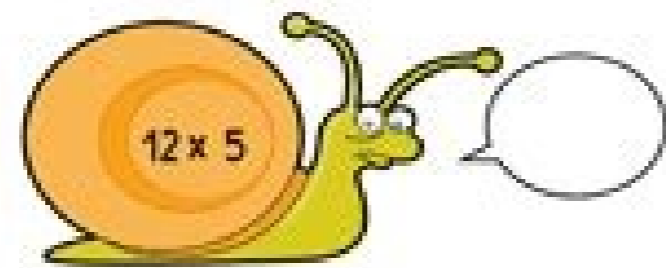
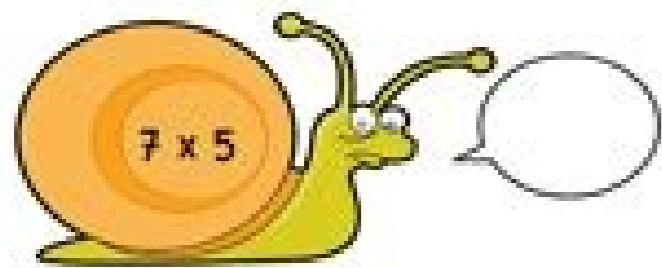
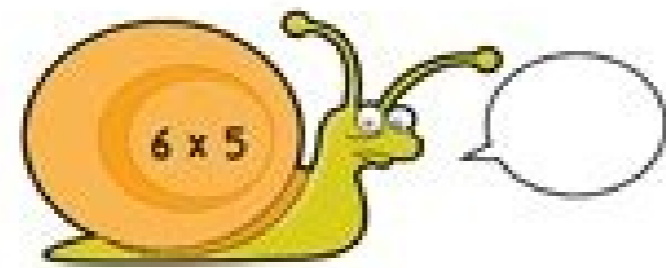
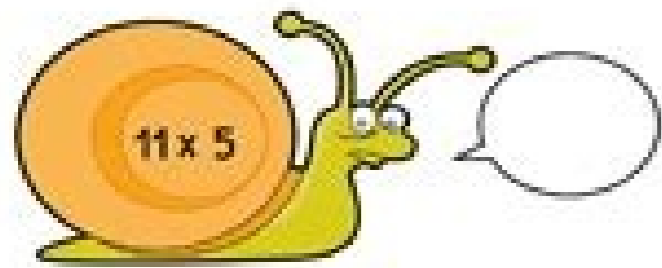
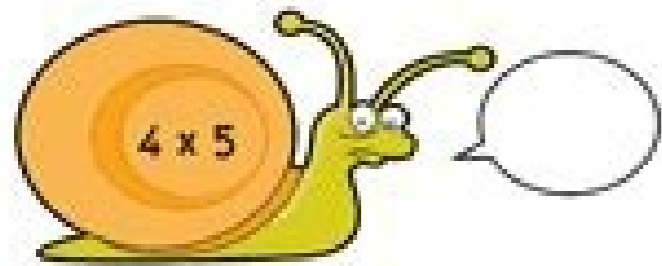
Answers: (a) (b) (c) Circle the correct answer.

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Name _____ Date _____

5 times table worksheet

Write the answer of each multiplication sentence in the speech bubble.



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