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Worksheet on Simplifying Fractions -4

Q1) Match the fractions in column 1 with their respective simplified fractions in column 2.

a) $\frac{2x}{x}$	i) x
b) $\frac{xz}{z}$	ii) $\frac{1}{y}$
c) $\frac{x}{xy}$	iii) 2

Q2) Fill the missing number that makes the fractions equal.

$$\frac{24}{15} = \frac{?}{5}$$

Q3) Find the following sum:

$$\frac{xy}{x^2y} + \frac{4x^2}{2x^3}$$

Q4) Choose the simplified form of $\sqrt{\frac{25}{49}}$.

- a) $\frac{1}{7}$
- b) $\frac{5}{7}$
- c) $\frac{7}{5}$
- d) $\frac{5}{4}$

Q5) Write a simplified fraction for 'two-sixths'.

Q6) Fill the missing numbers in the blocks.

$$\frac{49}{56} = \frac{49 \div \boxed{}}{56 \div \boxed{}} = \frac{7}{8}$$

Q7) Which of the following option(s) is/are correct?

- a) $\frac{5}{15} = \frac{1}{5}$
- b) $\frac{1}{7} = \frac{3}{21}$
- c) $\frac{9}{8} = \frac{8}{9}$

Q8) State true or false.

- a) $\frac{81}{21}$ is equivalent to $\frac{21}{7}$.
- b) $\frac{15}{12}$ is equivalent to $\frac{5}{4}$.

Q9) Choose the simplified fraction for $\frac{12}{54}$ from the list of fractions shown below.

$$\frac{5}{8}, \frac{8}{9}, \frac{9}{2}, \frac{2}{9}$$

Q10) Divide $15y^2 + 42$ by $40y^3 + 96y$. Write the answer in simplified form.

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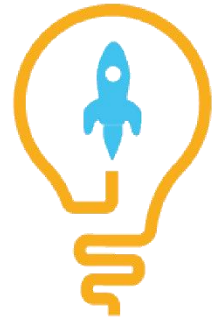
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ANSWERS

1)	a) - iii), b) - i), c) - ii)
2)	8
3)	$\frac{3}{x}$
4)	$\frac{5}{7}$
5)	$\frac{1}{3}$
6)	7, 7
7)	b) $\frac{1}{7} = \frac{3}{21}$
8)	a) False, b) True
9)	$\frac{2}{9}$
10)	$\frac{1}{8y}$

FUN FACT

1. The word "FRACTION" originated from 'fractio' that means to break.
2. A simplified fraction is equivalent to the original fraction.
3. One of the quickest ways to find the simplified fraction for a given fraction is to divide the numerator and denominator by their highest common factor

