Rational numbers and operations

Math

Name_____ Class_____ Date_____

1 Which number is **not** a **factor** of **16**?

A 2
B 4
C 8
D 32

2 The factors, **2 • 2 • 3 • 3 • x • x • y**, equal which expression?

A $10xy^2$
B $24x^2y$
C $36x^2y$
D $36y^2x$

3 What is the **greatest common factor** of the numbers **24** and **36**?

A 6
B 9

4 What is the **greatest common factor** of **12x4y^2** and **18 x^3y^3**?

A $3x^2y^3$
B $3x^3y^2$

5

PREVIEW

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7

A $\frac{}{5}$ **C** $\frac{}{11}$

B $\frac{4}{5}$ **D** $\frac{6}{13}$

A <
B >
C =
D ≥

9 What is the correct order from **least to greatest** for these numbers?

$\frac{6}{8}, \sqrt{.25}, \frac{4}{5}, .67$

A $\frac{4}{5}, \frac{6}{8}, \sqrt{.25}, .67$ **C** $\frac{4}{5}, \frac{6}{8}, .67, \sqrt{.25}$

B $\sqrt{.25}, .67, \frac{4}{5}, \frac{6}{8}$ **D** $\sqrt{.25}, .67, \frac{6}{8}, \frac{4}{5}$

10 What is the correct order from **greatest to least** for these numbers?

$\frac{15}{14}, .666..., \frac{9}{8}, \frac{\sqrt{9}}{25}, .8$

A $\frac{15}{14}, \frac{9}{8}, .8, \frac{\sqrt{9}}{25}, .666...$ **C** $\frac{\sqrt{9}}{25}, .666..., .8, \frac{15}{14}, \frac{9}{8}$

B $\frac{9}{8}, \frac{15}{14}, .8, .666..., \frac{\sqrt{9}}{25}$ **D** $\frac{\sqrt{9}}{25}, .666..., .8, \frac{9}{8}, \frac{15}{14}$

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1 Which number is **not** a **factor** of **16**?

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(D)

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B $24x^2y$
C $36x^2y$
D $36y^2x$

(C)

3 What is the **greatest common factor** of the numbers **24** and **36**?

A 6
B 9

(C)

4 What is the **greatest common factor** of $12x4y^2$ and $18\ x^3y^3$?

A $3x^2y^3$
B $3x^3y^2$

(D)

5

(D)

PREVIEW

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A $\dfrac{}{5}$ C $\dfrac{}{11}$

B $\dfrac{4}{5}$ D $\dfrac{6}{13}$

A <
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(A)

9 What is the correct order from **least to greatest** for these numbers?

$\dfrac{6}{8}, \sqrt{.25}, \dfrac{4}{5}, .67$

A $\dfrac{4}{5}, \dfrac{6}{8}, \sqrt{.25}, .67$ C $\dfrac{4}{5}, \dfrac{6}{8}, .67, \sqrt{.25}$

B $\sqrt{.25}, .67, \dfrac{4}{5}, \dfrac{6}{8}$ D $\sqrt{.25}, .67, \dfrac{6}{8}, \dfrac{4}{5}$

(D)

10 What is the correct order from **greatest to least** for these numbers?

$\dfrac{15}{14}, .666..., \dfrac{9}{8}, \dfrac{\sqrt{9}}{25}, .8$

A $\dfrac{15}{14}, \dfrac{9}{8}, .8, \dfrac{\sqrt{9}}{25}, .666...$ C $\dfrac{\sqrt{9}}{25}, .666..., .8, \dfrac{15}{14}, \dfrac{9}{8}$

B $\dfrac{9}{8}, \dfrac{15}{14}, .8, .666..., \dfrac{\sqrt{9}}{25}$ D $\dfrac{\sqrt{9}}{25}, .666..., .8, \dfrac{9}{8}, \dfrac{15}{14}$

(B)