

Basic Arithmetic Skill

Performing Exponentiation on Mixed Numbers

Raise the mixed number to the given power. Write your answer as a mixed number.

1) $\left(1\frac{1}{2}\right)^2$

2) $\left(1\frac{3}{4}\right)^2$

3) $\left(2\frac{1}{3}\right)^2$

4) $\left(3\frac{2}{5}\right)^2$

5) $\left(5\frac{1}{3}\right)^2$

6) $\left(6\frac{3}{5}\right)^2$

7) $\left(2\frac{1}{2}\right)^3$

8) $\left(1\frac{5}{7}\right)^3$

9) $\left(2\frac{7}{8}\right)^3$

10) $\left(3\frac{2}{3}\right)^3$

11) $\left(1\frac{2}{3}\right)^3$

12) $\left(3\frac{1}{5}\right)^3$

13) $\left(11\frac{1}{2}\right)^2$

14) $\left(9\frac{3}{4}\right)^2$

15) $\left(12\frac{1}{4}\right)^2$

16) $\left(8\frac{5}{6}\right)^2$

17) $\left(5\frac{1}{2}\right)^3$

18) $\left(4\frac{2}{3}\right)^3$

19) $\left(1\frac{1}{2}\right)^4$

20) $\left(2\frac{1}{3}\right)^4$

Answers to Performing Exponentiation on Mixed Numbers

1) $2\frac{1}{4}$

5) $28\frac{4}{9}$

9) $23\frac{391}{512}$

13) $132\frac{1}{4}$

17) $166\frac{3}{8}$

2) $3\frac{1}{16}$

6) $43\frac{14}{25}$

10) $49\frac{8}{27}$

14) $95\frac{1}{16}$

18) $101\frac{17}{27}$

3) $5\frac{4}{9}$

7) $15\frac{5}{8}$

11) $4\frac{17}{27}$

15) $150\frac{1}{16}$

19) $5\frac{1}{16}$

4) $11\frac{14}{25}$

8) $5\frac{13}{343}$

12) $32\frac{96}{125}$

16) $78\frac{1}{36}$

20) $29\frac{52}{81}$