

Math Graduation-02

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দশমিক সংখ্যার যোগ-বিয়োগ

$$\begin{array}{r} 1 \\ + 1 \\ \hline 2 \end{array}$$

practical

$$₹ + ₹.₹ = \underline{₹.₹}$$

$$₹ = \begin{array}{r} ₹.0 \\ + ₹.₹ \\ \hline ₹.₹ \end{array}$$

$$2.96 + 25.69 = \underline{28.65}$$

$$\begin{array}{r} 2.96 \\ + 25.69 \\ \hline 28.65 \end{array}$$

$$4 - 0.8 = 2.4$$

$$\begin{array}{r} 4 = 4.0 \\ - 0.8 \\ \hline \end{array}$$

$$2.4$$

$$9.5 - 2.76$$

$$\begin{array}{r} 9.50 \\ - 2.76 \\ \hline \end{array}$$

$$6.74$$

$$\begin{aligned} 9.5 &= 9.50 \\ &= 9.5000 \end{aligned}$$

দশমিক সংখ্যার গুণ-ভাগ

V.V.V.V.V.V.V.f

$$\begin{array}{r} + ৩৫২ \\ \times ২৫ \\ \hline ২৭৬০ \\ + ৩৫২ \textcircled{\bullet} \\ \hline ৫২৮০ \checkmark \end{array}$$

$$৫ \times ২ = ১০$$

১০

$$৫ \times ৫ = ২৫ + ১ = ২৬$$

২৬

$$৫ \times ৩ = ১৫ + ২ = ১৭$$

ସମସ୍ତଙ୍କୁ

Basic

20957

x 686

28 2 5 5 8

7 5 0 7 0

9 2 2 9 9 0 0

+

6 → 600

$$2.5 \times 6 = ?$$

$$\underline{25 \times 6 = 9.5}$$

Ans

$$0.25 \times 6$$

$$= 0.95$$

$$\underline{0.025 \times 6}$$

$$\textcircled{25}$$

$$\underline{95}$$

$$25 \times 6 = 095$$

$$25 \times 6 = \underline{\underline{095}}$$

$$\textcircled{= 0.095}$$

$$2.6 \times 2.6 = ?$$

26

4.26

$$\begin{array}{r} 26 \\ 26 \\ \hline \end{array}$$

726

000

426

~~4.26~~

1068

0.1 x 0.001 x 0.01 x 0.0001 = ?

[.00000000000000000000]

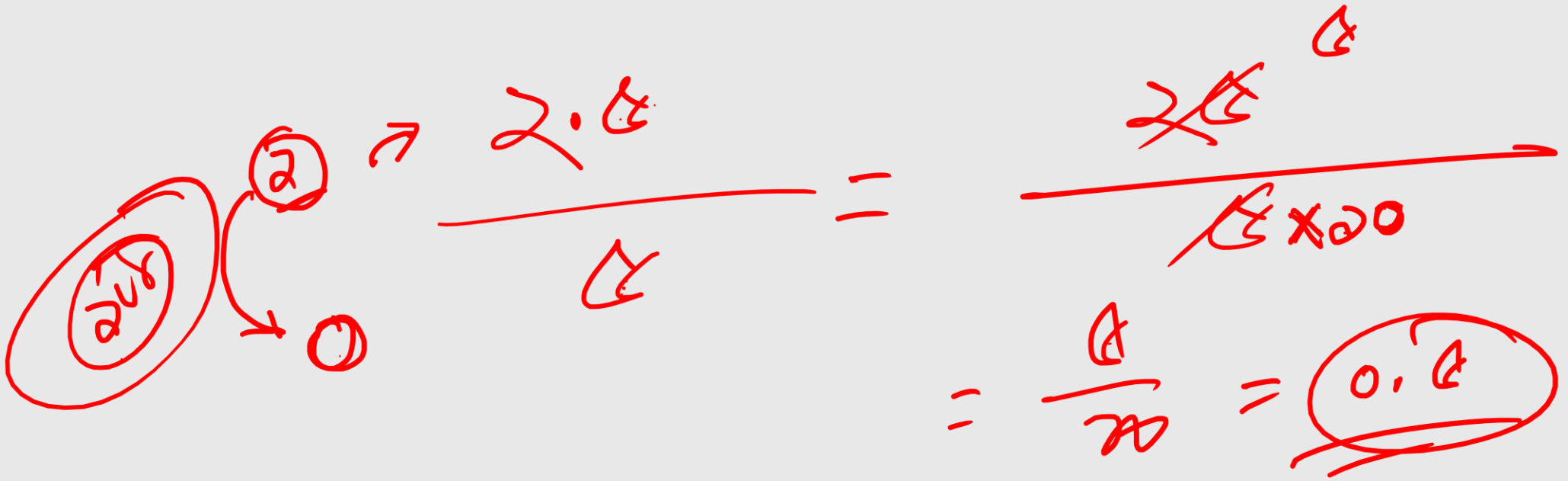
Ans.

280 x 2 = 280

2.80 x 0.001 =

2.80 x 10^-3 = 0.00280

$$2. \text{€} \div \text{€} = ?$$



$$\underline{9.0} \div \underline{2.0} = ? \quad \underline{\underline{6}}$$



$$\frac{9.0}{2.0} = \frac{\cancel{9}^6}{\cancel{2}^1} = 6$$

$$6.25 \div 0.125 = ? = 50$$

$$\textcircled{2} \quad \begin{array}{r} 4.25 \\ \hline 0.125 \end{array} = \begin{array}{r} \overset{5}{\cancel{4}25} \times 100 \\ \hline \cancel{1}25 \end{array} = 50$$

$\textcircled{1}$ ←

ସମାପ୍ତ (ଅର୍ଥ 50)

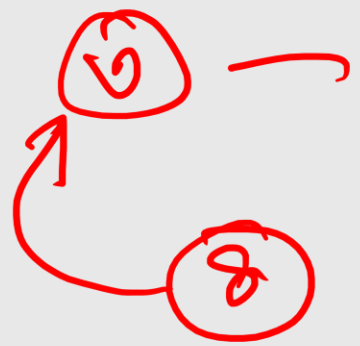
$$\textcircled{1} \quad \frac{0.002}{0.2 \times 0.2} = ?$$

चल. न. फल.

$$= \frac{2}{2 \times 2 \times 20} = \frac{2}{20} = 0.2$$

126 (म) 276 → 278

अज्ञेय



$$\frac{0.\overset{!}{2} \times 2.\overset{!}{2} \times 2.\overset{!}{2}}{0.\underset{!}{0}2 \times 0.\underset{!}{0}2} = ?$$

प्र. 21. वर ->

$$= \frac{2 \times 22 \times \cancel{2} \times 20}{2 \times \cancel{2}} = 440$$

$$= \frac{22 \times 22 \times \cancel{2}}{2 \times \cancel{2}} = 440$$

$$\frac{220}{20 \times 10000}$$

$$\frac{0.00220}{20} = 0.00011$$

$$0.00220 = \frac{220}{100000}$$

$$> 20 = \frac{20}{1}$$

$$= \frac{\frac{220}{10000}}{\frac{20}{1}}$$

$$= \frac{220}{10000} \times \frac{1}{20}$$

$$= \frac{220}{20 \times 10000}$$

10, 100, 1000 ইত্যাদি সংখ্যা দ্বারা গুণ-ভাগ

$$② \times ১০ = ২০$$

$$২ \times ১০০ = ২০০$$

$$২ \times ১০০০ = ২০০০$$

$$২ \times ১০০০০ = ২০০০০$$

$$৫ \times ১০০০ = ৫০০০$$

$$2.5 \times 2000 = 2500$$

$$0.85 \times 20 = 68.5 \rightarrow 1 \text{ ସଂ. ବା.}$$

$$0.852 \times 200 = 685.2 \rightarrow 2 \text{ ସଂ. ବା.}$$

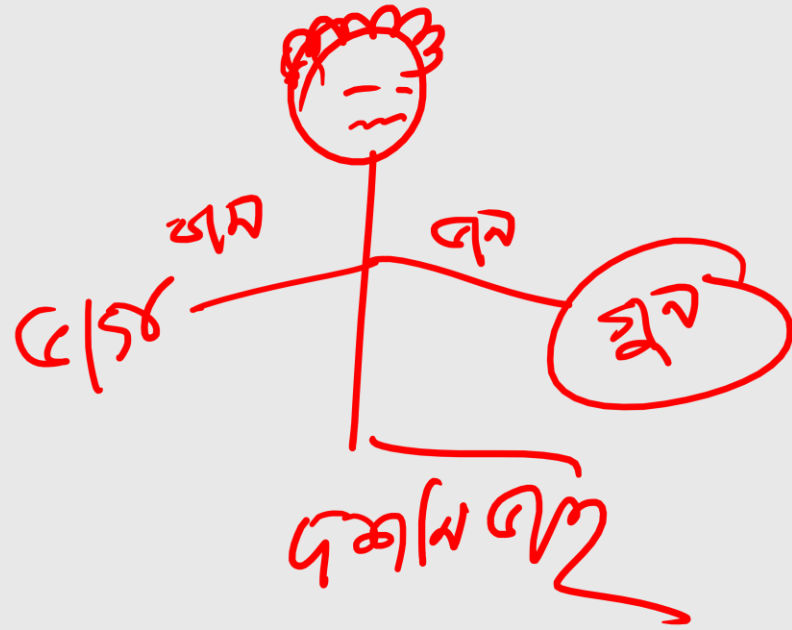
ସଂ. ବା. ସଂ.

$$6.97 \times \underline{20} = 139.4$$

$$5.2976 \times \underline{2000} = 10595.2$$

$$69.99 \div 10 = 6.999$$

↙



$$689.2 \div \underline{200} = 3.446$$

$$2 \div 20 = 0.1$$

$$2 = 2. = 2.0$$

$$\frac{2.}{20}$$

$$\frac{0.2}{\underline{200}} = 0.001$$

$$\frac{4.}{20} = \underline{\underline{0.2}}$$

0.2 — અનિચ્છ ફાઇનાન્સ

0.2 → ફાઇનાન્સ

$$\frac{4.}{20} = \textcircled{0.2}$$

$$\frac{2}{2} = 0.2$$

বর্গ ও বর্গমূল \rightarrow ৯

৫ এর বর্গ = $৫ \times ৫ = ২৫$

\rightarrow ৭ এর বর্গ = ৪৯
 \leftarrow ৪৯ এর বর্গমূল = ৭

$$+ \times + = \textcircled{+}$$

ଅନୁସାରେ ଉଭୟ ଚିହ୍ନ

$$\textcircled{+}$$

$$\textcircled{-}$$

$$(-) \times (-) = \textcircled{+}$$

ସମ-ଚିହ୍ନ ଫଳାଫଳ

ଉଭୟ ଚିହ୍ନ ବିପରୀତ ଫଳାଫଳ

$\rightarrow +$

$$\sqrt{9} = +3$$

20 ବା ଚାହାଣ କରା?

ଉତ୍ତର: +୫, -୫

$$\sqrt{25} = \underline{\underline{5}}$$

√

→ 1625

ସା.ର ଶୁଣା ଚାହାଣ କରା
ମିଶ୍ରଣ କରା ।

Squares 1 to 30

Handwritten red text: $2n^2 - 2n + 20$ with arrows pointing to the first column of squares.

$1^2 = 1$
 $2^2 = 4$
 $3^2 = 9$
 $4^2 = 16$
 $5^2 = 25$
 $6^2 = 36$
 $7^2 = 49$
 $8^2 = 64$
 $9^2 = 81$
 $10^2 = 100$

$11^2 = 121$
 $12^2 = 144$
 $13^2 = 169$
 $14^2 = 196$
 $15^2 = 225$
 $16^2 = 256$
 $17^2 = 289$
 $18^2 = 324$
 $19^2 = 361$
 $20^2 = 400$

$21^2 = 441$
 $22^2 = 484$
 $23^2 = 529$
 $24^2 = 576$
 $25^2 = 625$
 $26^2 = 676$
 $27^2 = 729$
 $28^2 = 784$
 $29^2 = 841$
 $30^2 = 900$

$$\begin{aligned} (+\sqrt{4})^2 &= 4 \\ (-\sqrt{4})^2 &= 4 \end{aligned}$$

$$\underline{x^2} = 4$$

$$x = \pm \sqrt{4}$$

$$x = \pm 2$$

$$\left. \begin{aligned} \sqrt{4} &= +2 \\ \sqrt{16} &= 4 \end{aligned} \right\}$$

$$x = \sqrt{4}$$

$$\Rightarrow \textcircled{= \pm 2}$$

পূর্ণ বর্গ সংখ্যার শর্ত-

$$4 \times 4 = 16$$

$$25$$

~~$$25$$~~

$$29$$

~~$$8 \times 8 = 64$$~~
~~$$5 \times 5 = 25$$~~

$$25$$

$$25$$

২৭ কে কত দ্বারা গুণ করলে সংখ্যাটি পূর্ণ বর্গ সংখ্যা হবে?

$$27 = (7 \times 7) \times 3$$

$$\begin{array}{r} 3 \sqrt{27} \\ \underline{21} \\ 6 \end{array}$$

$$= (7 \times 7) \times (7 \times 7)$$

৩৫২

১২৫ কে কত দ্বারা গুণ করলে সংখ্যাটি পূর্ণ বর্গ সংখ্যা হবে? প্রা. মঃ শি

$$২২৫ = (৫ \times ৫) \times (৫ \times ৫)$$

$$\begin{array}{r} ৫ \overline{) ২২৫} \\ \underline{৫} \\ ২৫ \\ \underline{৫} \\ ২০ \\ \underline{৫} \\ ১৫ \\ \underline{৫} \\ ১০ \\ \underline{৫} \\ ৫ \\ \underline{৫} \\ ০ \end{array}$$



৫ গুন করে ৬ ২৫

৩২ কে কত দ্বারা গুণ করলে সংখ্যাটি পূর্ণ বর্গ সংখ্যা হবে?

$$32 = (2 \times 2) \times (2 \times 2) \times (2 \times 2)$$

২ গুণ

$$\begin{array}{r} 2 \overline{) 32} \\ 2 \overline{) 16} \\ 2 \overline{) 8} \\ 2 \overline{) 4} \\ 2 \overline{) 2} \\ 2 \end{array}$$

$$25 = 5 \times 5$$
$$= (5 \times 5) \times (5 \times 5)$$

$$5 \times 5 = 25$$

$$5 \times 5 = 25$$

দশমিক সংখ্যার বর্গ ও বর্গমূল

$$(0.1)^2 = ?$$

$$0.\underline{1} \times 0.\underline{1} = \underline{0.01}$$

$$(0.00)^2 = ?$$

$$0.\overline{0}6 \times 0.\overline{0}6 = \underline{0.0007}$$

$$6 \times 6 = 7$$

$$(0.0005)^{\sqrt{r}} = ?$$

$$\begin{aligned} \underbrace{(0.0005)^{\sqrt{r}}}_{\textcircled{3}} &= \underbrace{.000000020}_{\downarrow} \sqrt{0.00007} = \frac{.06}{\uparrow} \\ &\quad \textcircled{8} \\ (0.06)^{\sqrt{r}} &= \frac{0.00007}{\textcircled{8}} \\ (0.2)^{\sqrt{r}} &= \frac{0.02}{\textcircled{2}} \\ &\quad \textcircled{1} \end{aligned}$$

$$\sqrt{0.0005} = ?$$

~~800~~



100

2

$$\sqrt{2} = 2$$

~~200~~

2

$$\sqrt{0.0025} = ?$$

8

.05

$$\sqrt{0.0000\underline{16}} = ?$$

.008

$$\sqrt{0.\underline{20}}$$

$$= 0.4 \dots \dots$$

$$= \sqrt{0.\underline{0020}}$$

$$= \underline{\underline{0.04}} \dots \dots$$

$$\sqrt{0.20}$$

$$\sqrt{20} =$$

$$\sqrt{2} = \underline{\underline{1.414}}$$

Thank You

ଅନନ୍ତରାଜ୍ୟ ସମାଜ