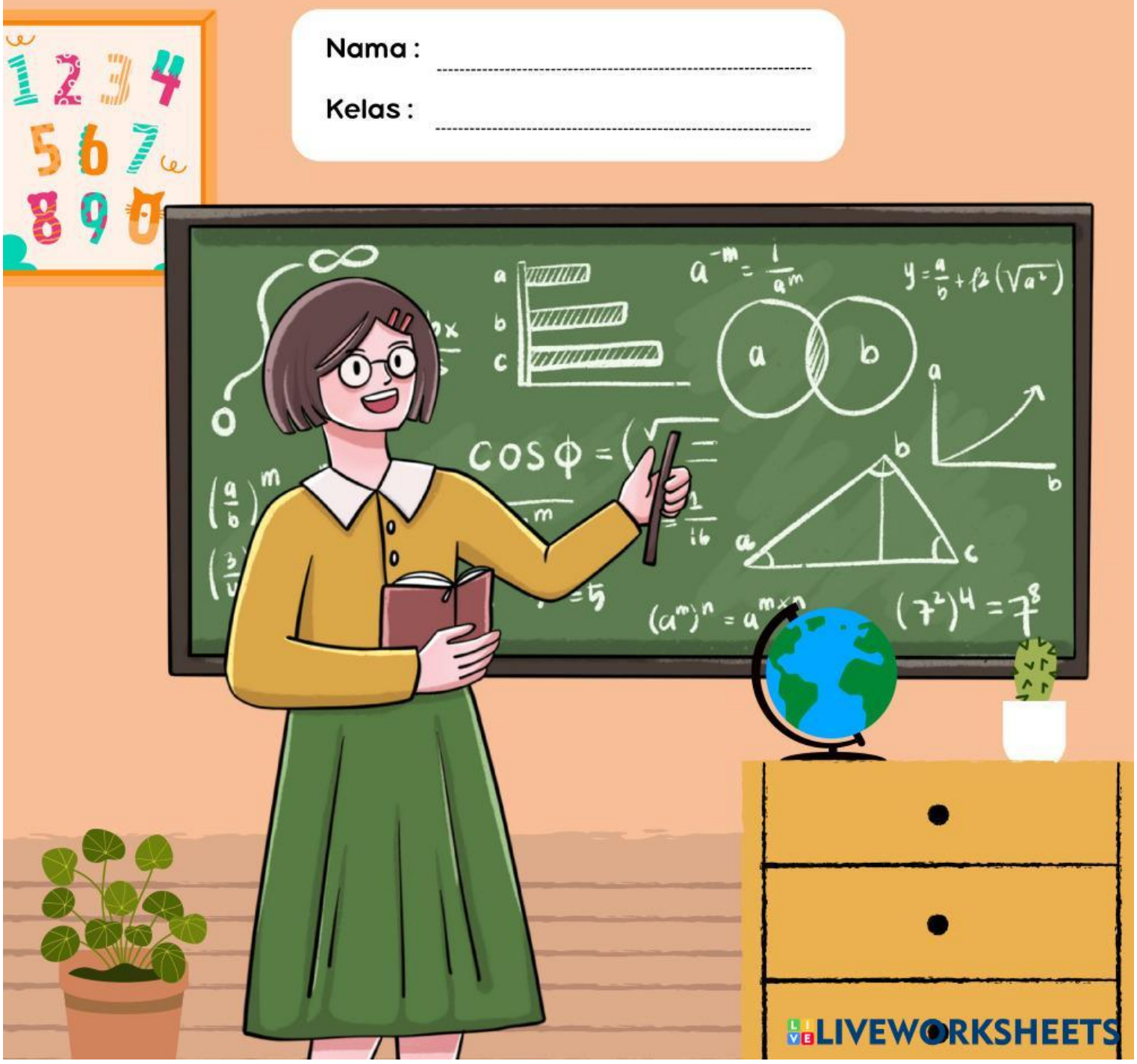
Lembar Kerja Peserta Didik

LKPD

MERASIONALKAN BENTUK AKAR

Nama : _____

Kelas : _____



LIVEWORKSHEETS

Ubahkah bilangan berikut kedalam bentuk akar!

$625^{\frac{7}{5}} = \ldots\ldots\ldots$

$243^{\frac{2}{6}} = \ldots\ldots\ldots$

$16^{\frac{1}{2}} = \ldots\ldots\ldots$

$128^{\frac{4}{7}} = \ldots\ldots\ldots$

$1048576^{\frac{8}{20}} = \ldots\ldots\ldots$

Buat anak panah untuk memasangkan bentuk akar dan sekawannya.

$\frac{a}{\sqrt{b}}$	$\frac{\sqrt{a}+\sqrt{b}}{\sqrt{a}+\sqrt{b}}$
$\frac{c}{\sqrt{a}+\sqrt{b}}$	$\frac{\sqrt{b}}{\sqrt{b}}$
$\frac{c}{\sqrt{a}-\sqrt{b}}$	$\frac{a-\sqrt{b}}{a-\sqrt{b}}$
$\frac{c}{a+\sqrt{b}}$	$\frac{a+\sqrt{b}}{a+\sqrt{b}}$
$\frac{c}{a-\sqrt{b}}$	$\frac{\sqrt{a}-\sqrt{b}}{\sqrt{a}-\sqrt{b}}$

LIVEWORKSHEETS

Pasangkan bilangan belum rasional dan bilagan rasional

Bilangan Belum Rasional	Bilangan Rasional
$\frac{3}{\sqrt{5}}$	$\frac{1}{3}\sqrt{7}$
$\frac{\sqrt{3}}{\sqrt{5}}$	$\frac{1}{5}\sqrt{15}$
$\frac{7}{3\sqrt{7}}$	$\frac{3}{5}\sqrt{5}$

Rasionalkan bentuk akar di bawah ini.

$$\frac{5}{5+\sqrt{3}} = \frac{5}{5+\sqrt{3}} \times \frac{\ldots\ldots - \sqrt{\ldots\ldots}}{\ldots\ldots - \sqrt{\ldots\ldots}}$$

$$= \frac{\ldots\ldots \times (\ldots\ldots - \sqrt{\ldots\ldots\ldots})}{(\ldots\ldots)^2 - (\sqrt{\ldots\ldots})^2}$$

$$= \frac{\ldots\ldots \times (\ldots\ldots - \sqrt{\ldots\ldots\ldots})}{\ldots\ldots - \ldots\ldots}$$

$$= \frac{\ldots\ldots \times (\ldots\ldots - \sqrt{\ldots\ldots\ldots})}{\ldots\ldots\ldots}$$

$$= \frac{\ldots\ldots}{\ldots\ldots}(\ldots\ldots - \sqrt{\ldots\ldots})$$

$$\frac{7}{\sqrt{7}-\sqrt{3}} = \frac{7}{\sqrt{7}-\sqrt{3}} \times \frac{\sqrt{\ldots\ldots} + \sqrt{\ldots\ldots}}{\sqrt{\ldots\ldots} + \sqrt{\ldots\ldots}}$$

$$= \frac{\ldots\ldots \times (\sqrt{\ldots\ldots\ldots} + \sqrt{\ldots\ldots\ldots})}{(\sqrt{\ldots\ldots})^2 - (\sqrt{\ldots\ldots})^2}$$

$$= \frac{\ldots\ldots \times (\sqrt{\ldots\ldots\ldots} + \sqrt{\ldots\ldots\ldots})}{\ldots\ldots - \ldots\ldots}$$

$$= \frac{\ldots\ldots \times (\sqrt{\ldots\ldots\ldots} + \sqrt{\ldots\ldots\ldots})}{\ldots\ldots\ldots}$$

$$= \frac{\ldots\ldots}{\ldots\ldots}(\sqrt{\ldots\ldots} + \sqrt{\ldots\ldots})$$

Jangan Terlalu Keras Pada Dirimu Sendiri. Belajarlah Dengan Bahagia. Dan Ciptakan Semangat Belajar Versi Dirimu Sendiri.

LIVEWORKSHEETS