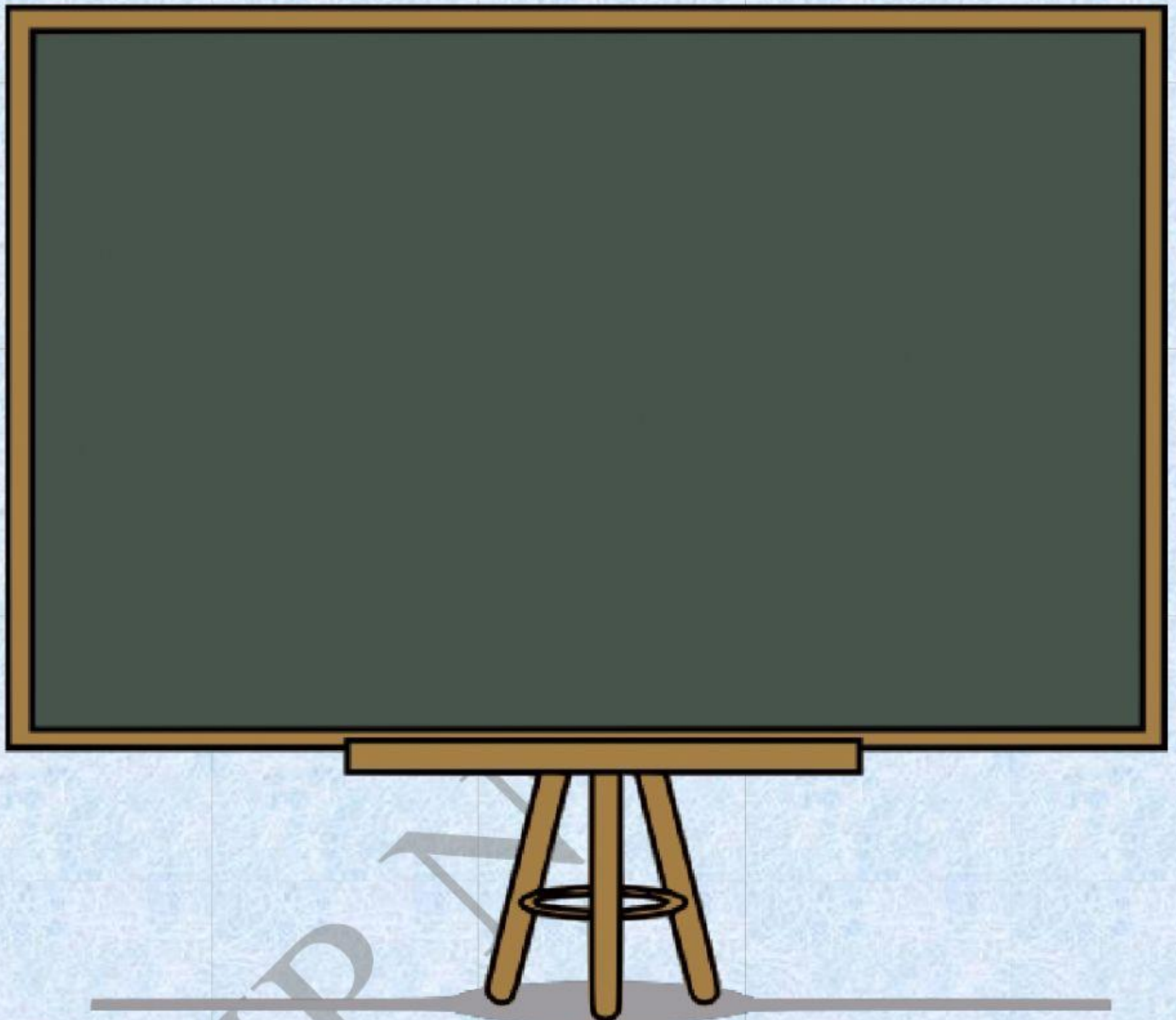


PERHATIKAN TAYANGAN BERIKUT INI



NAMA :

KELAS :

Setelah memperhatikan materi diatas, kerjakanlah LKPD di bawah ini dengan baik dan benar.

Catatan :

1. FULL NAME diisi NAMA LENGKAP
2. GROUP/LEVEL diisi KELAS
3. SCHOOL SUBJECT diisi MATEMATIKA
4. Ulangi pekerjaan hingga nilai minimal 71
5. Selamat mengerjakan .

LEMBAR KEGIATAN PESERTA DIDIK
PENGUNAAN PITHAGORAS PADA BANGUN SEGI EMPAT

Tujuan Pembelajaran:

3. Peserta didik dapat menentukan solusi masalah yang berkaitan dengan bangun datar segi empat menggunakan teorema Pythagoras

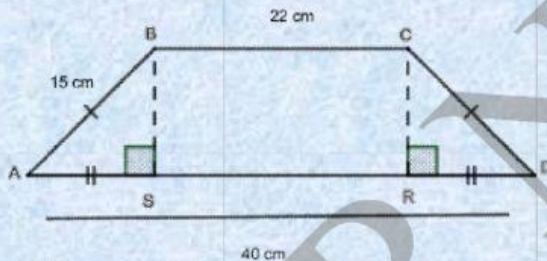
Petunjuk umum :

1. Berdo'alah sebelum mengerjakan
2. Kerjakan LKPD dengan teliti dengan mengikuti langkah-langkah di LKPD
3. Tanyakan kepada guru jika ada yang tidak di mengerti

KEGIATAN 1

TRAPESIUM

Masalah 1



1.) Berapa panjang AS?

SR = = 22 cm

AS =

AS = (AD - SR) : 2

AS = (-) : 2

AS = : 2

AS =

2.) Perhatikan segitiga siku-siku ABS. Berapa panjang BS?

$$AS = \boxed{} \quad AB = 15 \text{ cm}$$

$$BS = \boxed{}$$

$$BS^2 = \boxed{}^2 - AS^2$$

$$BS = \sqrt{\boxed{}^2} - \sqrt{\boxed{}^2}$$

$$BS = \sqrt{15^2} - \sqrt{\boxed{}^2}$$

$$BS = \sqrt{\boxed{}} - \sqrt{\boxed{}}$$

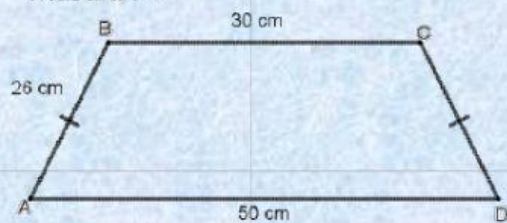
$$BS = \sqrt{\boxed{}}$$

$$BS = \boxed{}$$

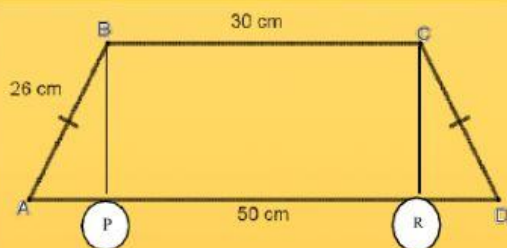
3.) Dari langkah 1 dan 2 berapa ukuran tinggi trapesium?

$$\text{Tinggi trapesium} = \boxed{} = \boxed{} = \boxed{}$$

Masalah 2



Berapa tinggi trapesium diatas?



$$PR = \boxed{} = 30 \text{ cm}$$

$$AP = \boxed{}$$

$$AP = (AD - PR) : 2$$

$$AP = (\boxed{} - \boxed{}) : 2$$

$$AP = \boxed{} : 2$$

$$AP = \boxed{}$$

Tinggi Trapesium = BP

$$AP = \boxed{} \quad AB = 26 \text{ cm}$$

$$BP = \boxed{}$$

$$BP^2 = \boxed{} - AP^2$$

$$BP = \sqrt{\boxed{}^2} - \sqrt{\boxed{}^2}$$

$$BP = \sqrt{\boxed{}^2} - \sqrt{\boxed{}^2}$$

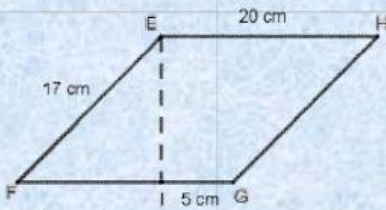
$$BP = \sqrt{\boxed{}} - \sqrt{\boxed{}}$$

$$BP = \sqrt{\boxed{}}$$

$$BP = \boxed{}$$

KEGIATAN 2

Jajar Genjang



Berapa tinggi jajar genjang EFGH?

Tinggi = EI

$$EI^2 = \dots^2 - \dots^2$$

$$FI = EH - \dots$$

$$EI^2 = \dots^2 - \dots^2$$

$$EI = \sqrt{\dots^2 - \dots^2}$$

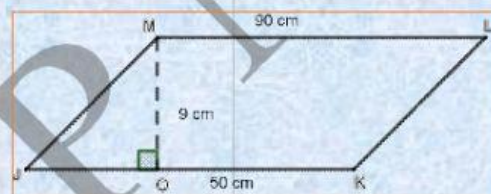
$$EI = \sqrt{\dots} - \sqrt{\dots}$$

$$EI = \sqrt{\dots}$$

$$EI = \dots$$

Berapa luas jajar genjang EFGH?

$$\begin{aligned} \text{Luas jajar genjang} &= \dots \times \dots \\ &= \dots \times \dots \\ &= \dots \end{aligned}$$



Masalah 2

Carilah panjang JO dan panjang MJ

Tinggi = MO

$$JO = ML - \dots$$

$$JO = \dots - \dots = \dots$$

$$MJ^2 = \dots + MO^2$$

$$MJ = \sqrt{\dots^2 + \dots^2}$$

$$MJ = \sqrt{\dots^2 + \dots^2}$$

$$MJ = \sqrt{\dots} + \sqrt{\dots}$$

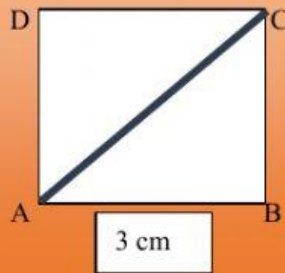
$$MJ = \sqrt{\dots}$$

$$MJ = \dots$$

KEGIATAN 3

PERSEGI

1. Berapa panjang diagonal persegi yang mempunyai panjang sisi 3 cm?



$$AC^2 = \boxed{\dots\dots}^2 + \boxed{\dots\dots}^2$$

$$AC = \sqrt{\boxed{\dots\dots}^2} + \sqrt{\boxed{\dots\dots}^2}$$

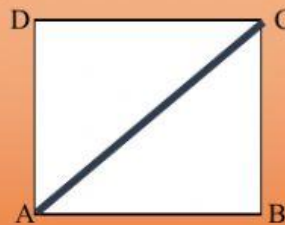
$$AC = \sqrt{\boxed{\dots\dots}^2} + \sqrt{\boxed{\dots\dots}^2}$$

$$AC = \sqrt{\boxed{\dots\dots}} + \sqrt{\boxed{\dots\dots}}$$

$$AC = \sqrt{\boxed{\dots\dots}}$$

$$AC = \boxed{\dots\dots}\sqrt{2}$$

2. Berapa panjang diagonal persegi yang mempunyai luas 25 cm²?



$$AC^2 = \boxed{\dots\dots}^2 + \boxed{\dots\dots}^2$$

$$AC = \sqrt{\boxed{\dots\dots}^2} + \sqrt{\boxed{\dots\dots}^2}$$

$$AC = \sqrt{\boxed{\dots\dots}^2} + \sqrt{\boxed{\dots\dots}^2}$$

$$AC = \sqrt{\boxed{\dots\dots}} + \sqrt{\boxed{\dots\dots}}$$

$$AC = \sqrt{\boxed{\dots\dots}}$$

$$AC = \boxed{\dots\dots}\sqrt{2}$$

Sisi = S

LUAS = S x S

$$25 = \boxed{\dots\dots}^2$$

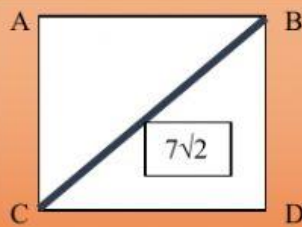
$$\sqrt{25} = \boxed{\dots\dots}$$

$$\boxed{\dots\dots} = S$$

3. Berapa panjang diagonal persegi yang mempunyai keliling 40 cm?

$$\begin{aligned}
 \text{Keliling Persegi} &= 4 \times \boxed{} \\
 40 \text{ cm} &= \boxed{} \times \boxed{} \\
 40 \text{ cm} &= \boxed{} \\
 \boxed{} &= \boxed{} \\
 \boxed{} &= S
 \end{aligned}$$

4. Berapa luas dan keliling persegi jika panjang diagonalnya $7\sqrt{2}$ cm?



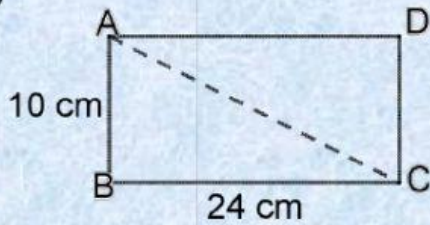
$$\begin{aligned}
 \text{LUAS} &= \boxed{} \times \boxed{} \\
 &= \boxed{} \times \boxed{} \\
 &= \boxed{}
 \end{aligned}$$

$$\begin{aligned}
 \text{KELILING} &= \boxed{} \times \boxed{} \\
 &= \boxed{} \times \boxed{} \\
 &= \boxed{}
 \end{aligned}$$

KEGIATAN 4

PERSEGI PANJANG

1.)



1.) Berapa panjang diagonal persegi panjang ABCD?

$$AC^2 = \boxed{\dots\dots}^2 + \boxed{\dots\dots}^2$$

$$AC = \boxed{\sqrt{\dots\dots}^2} + \boxed{\sqrt{\dots\dots}^2}$$

$$AC = \boxed{\sqrt{\dots\dots}^2} + \boxed{\sqrt{\dots\dots}^2}$$

$$AC = \boxed{\sqrt{\dots\dots}} + \boxed{\sqrt{\dots\dots}}$$

$$AC = \boxed{\sqrt{\dots\dots}}$$

$$AC = \boxed{}$$

2.) Persegi panjang mempunyai luas 120 cm² dan lebar 8 cm. Berapa panjang diagonalnya?



$$LUAS = \boxed{} \times \boxed{}$$

$$\boxed{} = \boxed{} \times \boxed{8 \text{ cm}}$$

$$\boxed{120/} = \boxed{}$$

$$\boxed{} = \boxed{}$$

$$AC^2 = \boxed{\dots\dots}^2 + \boxed{\dots\dots}^2$$

$$AC = \boxed{\sqrt{\dots\dots}^2} + \boxed{\sqrt{\dots\dots}^2}$$

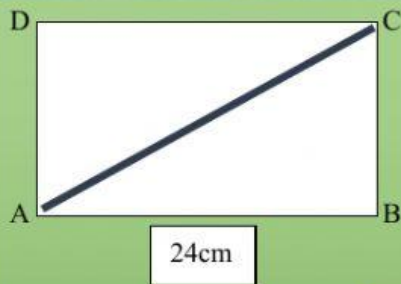
$$AC = \boxed{\sqrt{\dots\dots}^2} + \boxed{\sqrt{\dots\dots}^2}$$

$$AC = \boxed{\sqrt{\dots\dots}} + \boxed{\sqrt{\dots\dots}}$$

$$AC = \boxed{\sqrt{\dots\dots}}$$

$$AC = \boxed{}$$

3.) Persegi panjang mempunyai keliling 62 cm dan panjang 24 cm. Berapa panjang diagonalnya?



$$\text{KELILING} = \boxed{} \times (\boxed{p} + \boxed{})$$

$$\boxed{62\text{cm}} = \boxed{} \times (\boxed{} + \boxed{})$$

$$\boxed{62\text{cm}/} = \boxed{} + \boxed{}$$

$$\boxed{} = \boxed{24\text{cm}} + \boxed{}$$

$$\boxed{} - \boxed{} = \boxed{}$$

$$\boxed{} = \boxed{}$$

Panjang diagonal = AC

$$AC^2 = \boxed{}^2 + \boxed{}^2$$

$$AC = \boxed{\sqrt{}^2} + \boxed{\sqrt{}^2}$$

$$AC = \boxed{\sqrt{}^2} + \boxed{\sqrt{}^2}$$

$$AC = \boxed{\sqrt{}} + \boxed{\sqrt{}}$$

$$AC = \boxed{\sqrt{}}$$

$$AC = \boxed{}$$