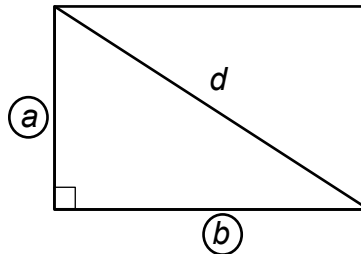


8. PRIMJENA PITAGORINA POUČKA NA KVADRAT I PRAVOKUTNIK

8. NASTAVNI LISTIĆ

1. Izračunaj duljinu dijagonale pravokutnika.



$$d^2 = a^2 + b^2$$

a) $a = 6 \text{ cm}$

$$b = 8 \text{ cm}$$

$$d = ?$$

$$d^2 = a^2 + b^2$$

$$d^2 = 6^2 + 8^2$$

$$d^2 =$$

$$d^2 =$$

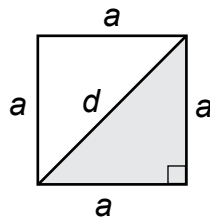
$$d =$$

b) $a = 5 \text{ cm}$

$$b = 12 \text{ cm}$$

$$d = ?$$

2. Izračunaj duljinu dijagonale kvadrata.



$$d = a\sqrt{2}$$

a) $a = 4 \text{ cm}$

$$d = ?$$

$$d = a\sqrt{2}$$

$$d = 4 \cdot 1.41$$

$$d =$$

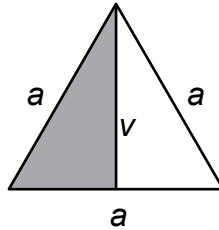
b) $a = 5 \text{ cm}$

$$d = ?$$

**9. PRIMJENA PITAGORINA POUČKA
NA JEDNAKOSTRANIČNI I
JEDNAKOKRAČNI TROKUT**

9. NASTAVNI LISTIĆ

1. Izračunaj visinu jednakostraničnog trokuta.



$$v = \frac{a\sqrt{3}}{2}$$

a) $a = 6 \text{ cm}$

$$v = ?$$

$$v = \frac{a\sqrt{3}}{2}$$

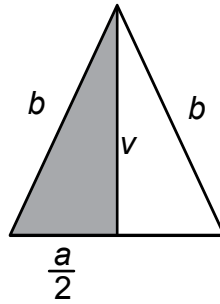
$$v =$$

$$v =$$

b) $a = 10 \text{ cm}$

$$v = ?$$

2. Izračunaj visinu jednakokravnog trokuta.



$$v^2 = b^2 - \left(\frac{a}{2}\right)^2$$

a) $a = 16$ cm
 $b = 10$ cm

$$v = ?$$

$$v^2 = b^2 - \left(\frac{a}{2}\right)^2$$

$$v^2 =$$

$$v^2 =$$

$$v^2 =$$

$$v^2 =$$

$$v =$$

b) $a = 10$ cm
 $b = 13$ cm

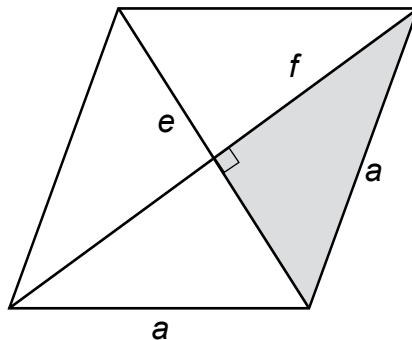
$$v = ?$$

$$v^2 = b^2 - \left(\frac{a}{2}\right)^2$$

10. PRIMJENA PITAGORINA POUČKA NA ROMB I TRAPEZ

10. NASTAVNI LISTIĆ

1. Izračunaj duljinu stranice romba.



$$a^2 = \left(\frac{e}{2}\right)^2 + \left(\frac{f}{2}\right)^2$$

a) $e = 6$ cm b) $e = 10$ cm

$$f = 8 \text{ cm}$$

$$a = ?$$

$$a^2 = \left(\frac{e}{2}\right)^2 + \left(\frac{f}{2}\right)^2$$

$$a^2 = \left(\frac{6}{2}\right)^2 + \left(\frac{8}{2}\right)^2$$

$$a^2 =$$

$$a^2 =$$

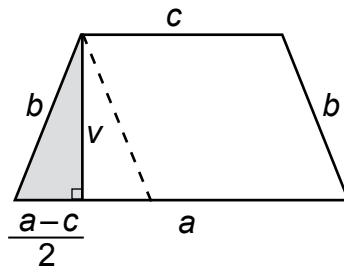
$$a^2 =$$

$$a =$$

$$f = 24 \text{ cm}$$

$$a = ?$$

2. Izračunaj visinu jednakokračnog trapeza.



$$v^2 = b^2 - \left(\frac{a-c}{2}\right)^2$$

- a) $a = 22$ cm
 $b = 10$ cm
 $c = 10$ cm

$v = ?$

$$v^2 = b^2 - \left(\frac{a-c}{2}\right)^2$$

$$v^2 =$$

$$v^2 =$$

$$v^2 =$$

$$v^2 =$$

$$v =$$

- b) $a = 10$ cm
 $b = 5$ cm
 $c = 2$ cm

$v = ?$

1. Pretvori u decimalni oblik.

- a) $\frac{1}{5} = 0.2$ b) $\frac{3}{4} = \underline{\hspace{2cm}}$
 c) $\frac{9}{8} = \underline{\hspace{2cm}}$ d) $\frac{1}{10} = \underline{\hspace{2cm}}$
 e) $\frac{1}{4} = \underline{\hspace{2cm}}$ f) $\frac{5}{8} = \underline{\hspace{2cm}}$

2. Pretvori u decimalni oblik.

- a) $\frac{1}{3} = 0.\dot{3}$ b) $\frac{2}{3} = \underline{\hspace{2cm}}$
 c) $\frac{5}{3} = \underline{\hspace{2cm}}$ d) $\frac{1}{9} = \underline{\hspace{2cm}}$
 e) $\frac{7}{9} = \underline{\hspace{2cm}}$ f) $\frac{7}{3} = \underline{\hspace{2cm}}$

3. Pretvori u decimalni oblik.

- a) $\frac{1}{6} = 0.1\dot{6}$ b) $\frac{7}{6} = \underline{\hspace{2cm}}$
 c) $\frac{1}{18} = \underline{\hspace{2cm}}$ d) $\frac{5}{18} = \underline{\hspace{2cm}}$
 e) $\frac{7}{12} = \underline{\hspace{2cm}}$ f) $\frac{7}{15} = \underline{\hspace{2cm}}$

4. Pretvori u decimalni oblik.

- a) $\frac{1}{99} = 0.0\dot{1}$ b) $\frac{7}{33} = \underline{\hspace{2cm}}$
 c) $\frac{50}{33} = \underline{\hspace{2cm}}$ d) $\frac{1}{27} = \underline{\hspace{2cm}}$
 e) $\frac{31}{27} = \underline{\hspace{2cm}}$ f) $\frac{7}{27} = \underline{\hspace{2cm}}$

5. Zaokruži decimalni broj na jedno decimalno mjesto.

a) $0.23 = 0.2$

b) $0.26 = \underline{\hspace{2cm}}$

c) $0.41 = \underline{\hspace{2cm}}$

d) $0.69 = \underline{\hspace{2cm}}$

6. Zaokruži decimalni broj na dva decimalna mjesta.

a) $0.237 = 0.24$

b) $0.148 = \underline{\hspace{2cm}}$

c) $0.415 = \underline{\hspace{2cm}}$

d) $0.691 = \underline{\hspace{2cm}}$

5. Pretvori u decimalni broj.

Zaokruži ga na dva decimalna mjesta.

a) $\sqrt{3} = 0.73$

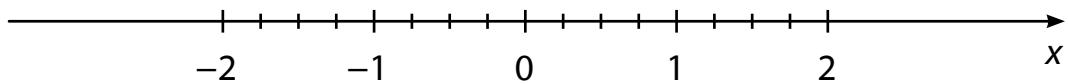
b) $\sqrt{2} = \underline{\hspace{2cm}}$

c) $\sqrt{5} = \underline{\hspace{2cm}}$

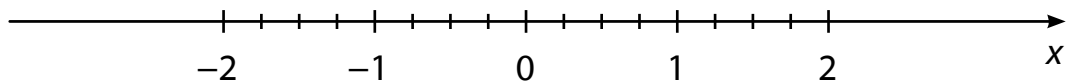
d) $\sqrt{7} = \underline{\hspace{2cm}}$

1. **Smjesti** točke na brojevni pravac.

a) $A (2)$, $B (-1)$, $C (\frac{3}{2})$

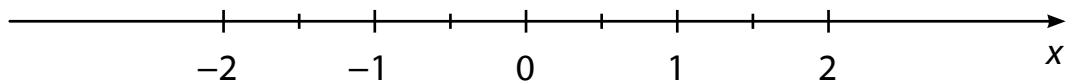


b) $A (-1)$, $B(\frac{3}{4})$, $C(\frac{3}{4})$

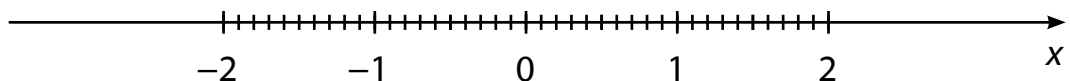


2. **Smjesti** točke na brojevni pravac.

a) $A (0.5)$, $B (1.5)$, $C (-\frac{3}{2})$



b) $A (0.3)$, $B (0.8)$, $C (-\frac{3}{10})$



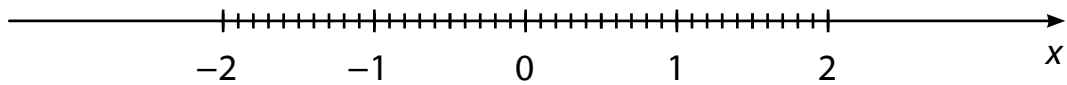
3. Pronađi za svaki zadani broj najbliži decimalni broj (zaokružen na 1 decimalno mjesto) pa mu **pridrži** točku na brojevnom pravcu.

a) A ($\sqrt{2}$), B ($\sqrt{3}$), C ($-\sqrt{2}$)

$$\sqrt{2} = \underline{\hspace{2cm}}$$

$$\sqrt{3} = \underline{\hspace{2cm}}$$

$$-\sqrt{2} = \underline{\hspace{2cm}}$$



b) A ($\sqrt{5}$), B ($\sqrt{7}$), C ($\sqrt{13}$)

$$\sqrt{5} = \underline{\hspace{2cm}}$$

$$\sqrt{7} = \underline{\hspace{2cm}}$$

$$\sqrt{13} = \underline{\hspace{2cm}}$$

