

Kvadar i kocka – vježba

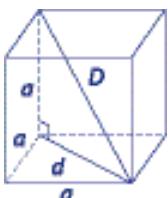
1. Izračunajte duljinu plošne i prostorne dijagonale kocke ako je duljina brida 6 cm.

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

$$D, d = ?$$

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

$$D = a\sqrt{3}$$



2. Izračunajte duljinu brida kocke i duljinu prostorne dijagonale ako je duljina plošne dijagonale $4\sqrt{2}$ cm.

$$d = 4\sqrt{2} \text{ cm}$$

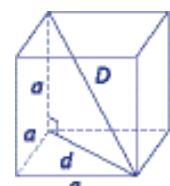
$$a, D = ?$$

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

$$4\sqrt{2} = a\sqrt{2} / : \sqrt{2}$$

$$D = a\sqrt{3}$$

$$a =$$



3. Izračunajte duljinu brida i duljinu plošne dijagonale kocke kojoj je duljina prostorne dijagonale $2\sqrt{3}$ cm.

$$D = 2\sqrt{3} \text{ cm}$$

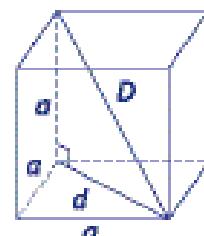
$$a, d = ?$$

$$D = a\sqrt{3}$$

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

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

$$a =$$



4. Izračunajte duljinu prostorne dijagonale kvadra kojemu su bridovi dugi 4 cm, 5 cm i 20 cm.

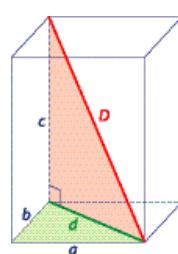
$$a = 4 \text{ cm}$$

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

$$c = 20 \text{ cm}$$

$$D = ?$$

$$D = \sqrt{a^2 + b^2 + c^2}$$

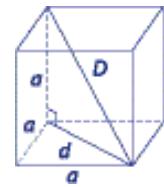


5. Izračunajte oplošje kocke čiji je brid $a = 4 \text{ cm}$.

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

$$O = 6a^2$$

$$O = ?$$



6. Izračunajte oplošje kvadra kojemu su zadane duljine bridova $a = 2 \text{ cm}$, $b = 5 \text{ cm}$ i $c = 12 \text{ cm}$.

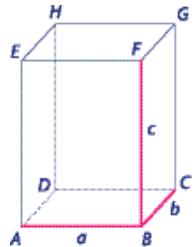
$$\underline{a = 2 \text{ cm}}$$

$$O = 2(ab + ac + bc)$$

$$\underline{b = 5 \text{ cm}}$$

$$\underline{c = 12 \text{ cm}}$$

$$O = ?$$



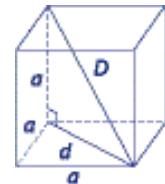
7. Izračunajte oplošje i obujam kocke kojoj je zadana duljina brida $a = 4 \text{ cm}$.

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

$$O = 6a^2$$

$$V = a^3$$

$$O, V = ?$$



8. Izračunajte oplošje i obujam kvadra kojemu su zadane duljine bridova $a = 2 \text{ cm}$, $b = 5 \text{ cm}$ i $c = 12 \text{ cm}$.

$$\underline{a = 2 \text{ cm}}$$

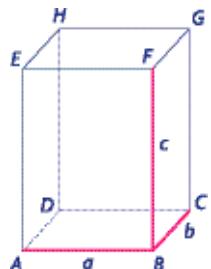
$$O = 2(ab + ac + bc)$$

$$V = a \cdot b \cdot c$$

$$\underline{b = 5 \text{ cm}}$$

$$\underline{c = 12 \text{ cm}}$$

$$O, V = ?$$



Kada završiš s rješavanjem današnjih zadataka, **KOMENTIRAJ** moju današnju objavu u kanalu Matematika tako da napišeš **koji zadaci su ti bili najlakši, a koji najteži**. Ako trebaš pomoći, javi mi se



na Teamsu.