

Evidenční číslo:.....

1 1.1 Uvedte postup řešení

$$[7 - (-3)] : \left(\frac{11}{8} - 3 : 8\right) - \left(-3,2 + \frac{1}{5}\right) \cdot (-2) =$$

$$= 10 : \left(\frac{11}{8} - \frac{3}{8}\right) - (-3,2 + 0,2) \cdot (-2) = 10 : 1 - (-3) \cdot (-2) = 10 - 6 = 4$$

1.2 Uvedte postup řešení

$$\sqrt{5^2 - 3^2} + 0,5^2 - \sqrt{16} = \sqrt{25 - 9} + 0,25 - 4 = \sqrt{16} + 0,25 - 4 = 0,25$$

2

$$-96 + 98 = 2$$

3 3.1 Uvedte celý postup řešení

$$3(x - 2) \cdot (x + 2) + 16 - \frac{1}{9} \cdot (3x - 6)^2 =$$

$$= 3(x^2 - 4) + 16 - \frac{1}{9} \cdot (9x^2 - 36x + 36) = 3x^2 - 12 + 16 - (x^2 - 4x + 4) = 2x^2 + 4x$$

3.2 Uvedte celý postup řešení

$$4z(z - 3) + (z + 6)^2 =$$

$$= 4z^2 - 12z + z^2 + 12z + 36 = 5z^2 + 36$$

4

$$9 \cdot a^2 - \left[\frac{4}{9}\right] = \left([3a] + \frac{2}{3}\right) \cdot \left([3a] - \frac{2}{3}\right)$$

5

5.1

$$200 a$$

5.2

$$1000 \text{ m}^2$$

6 6.1

$$25 \text{ cm}^3$$

6.2

$$\frac{4}{5}$$

7

$$5 + \frac{x-4}{3} = \frac{5-x}{5} \quad / \cdot 15$$

$$75 + 5(x-4) = 3(5-x)$$

$$75 + 5x - 20 = 15 - 3x$$

$$8x = -40$$

$$x = -5$$

8

$$\frac{1}{2}x - 3y = -1 \quad / \cdot 2$$

$$0,3x + y = 5 \quad / \cdot 10$$

$$\hline x - 6y = -2$$

$$3x + 10y = 50$$

$$\hline x = 6y - 2$$

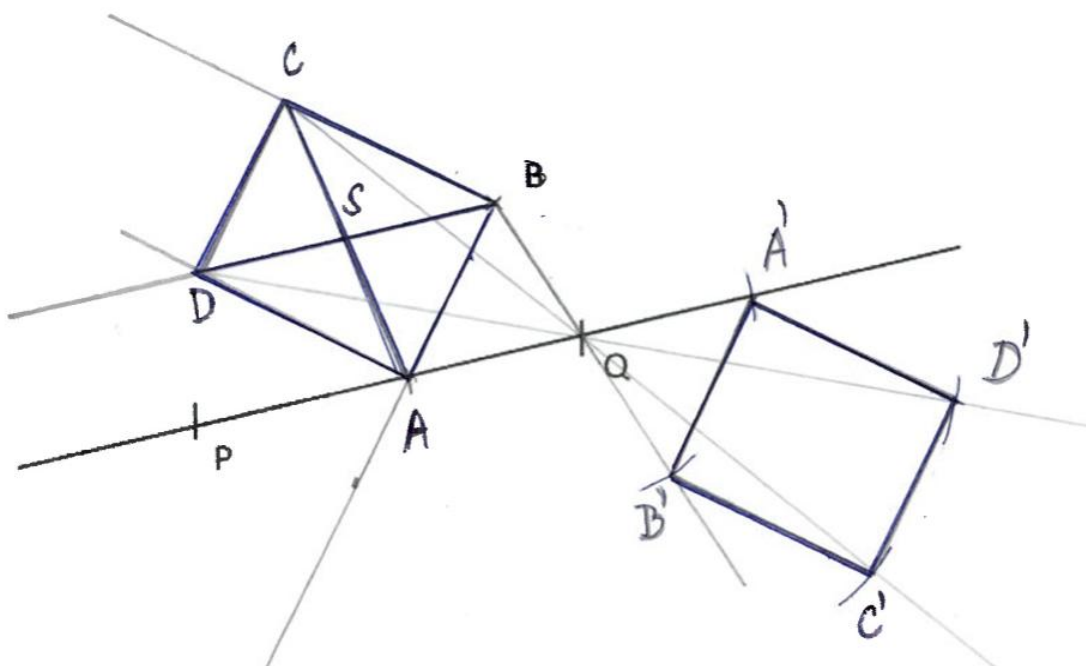
$$3(6y - 2) + 10y = 50$$

$$18y - 6 + 10y = 50$$

$$28y = 56$$

$$y = 2, x = 10$$

9



**MATEMATIKA 9**

DIDAKTICKÝ TEST – ZÁZNAMOVÝ ARCH STRANA 3 / 3

Evidenční číslo:.....

	A	B	C	D	E
10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

16 16.1

o 9 žáků

16.2

mezi 9.C a 9.D

	A	B	C	D	E	F
17						
17.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>