



3. 7AF1.1 a. Napi { i go kako matemati ~ki i zraz:

$\frac{4}{5}$  as large as the width, where the *width* =  $W$

a.  $\frac{4}{5} + W$

c.  $\frac{4}{5} W$

b.  $\frac{4}{5} \leq W$

d.  $\frac{4}{5} > W$

ANS: C

	Feedback
A	Pogre{ na operaci ja.
B	Pogre{ en matemati ~ki znak.
C	To~no!
D	Pogre{ en matemati ~ki znak.

PTS: 1 DIF: Grade 7

REF: 7AF.1.0 Students express quantitative relationships by using algebraic terminology, expressions, equations, inequalities, and graphs:

OBJ: 7AF.1.1 Use variables and appropriate operations to write an expression, an equation, an inequality, or a system of equations or inequalities that represents a verbal description.

TOP: Algebra & Functions

MSC: LFS & EJ-415

4. 7AF1.1 b. Napi { i go kako matemati ~ka ednakvost:

$A$  is 5 more than 2 times the value of  $P$

a.  $3A = 2P$

c.  $A = 2P + 3$

b.  $3 + A = 2P$

d.  $A > P + 3$

ANS: C

	Feedback
A	Pogre{ no.
B	Pogl edni ja l evata strana povtorno.
C	To~no!
D	Ovde nedosti ga ne{ to.

PTS: 1 DIF: Grade 7

REF: 7AF.1.0 Students express quantitative relationships by using algebraic terminology, expressions, equations, inequalities, and graphs:

OBJ: 7AF.1.1 Use variables and appropriate operations to write an expression, an equation, an inequality, or a system of equations or inequalities that represents a verbal description.

TOP: Algebra & Functions

MSC: LFS & EJ-415



7. 7AF1.1 c. Napi { i go kako matemati ~ki i zraz:

$L$  is  $\frac{2}{3}$  the size of  $A$

a.  $L \leq \frac{2}{3}A$

c.  $L = \frac{2}{3}A$

b.  $L \neq \frac{2}{3}A$

d.  $\frac{2}{3}L = A$

ANS: C

	Feedback
A	Pogre{ en matemati ~ki znak.
B	Pogre{ en matemati ~ki znak.
C	To-no!
D	Pogre{ no mesto na $\frac{3}{4}$ .

PTS: 1

DIF: Grade 7

REF: 7AF.1.0 Students express quantitative relationships by using algebraic terminology, expressions, equations, inequalities, and graphs:

OBJ: 7AF.1.1 Use variables and appropriate operations to write an expression, an equation, an inequality, or a system of equations or inequalities that represents a verbal description.

TOP: Algebra & Functions

MSC: LFS & EJ-415

8. 7AF1.1 c. Ako  $F$  je  $\frac{4}{9}$  od gol emi nata na  $T$  i  $T$  je 6 pati pogol emo od gol emi nata na  $G$ , toga{ i zrazi go  $F$  preku  $G$ .

a.  $F = \frac{4}{9}T + 6G$

c.  $F = \frac{8}{3}T$

b.  $\frac{8}{3}F = G$

d.  $F = \frac{8}{3}G$

ANS: D

$F = \frac{4}{9}T$  i  $T = 6G$  pa sleduva  $F = \frac{4}{9} \cdot 6G$ .

Toga{ ,  $F = \frac{8}{3}G$ .

	Feedback
A	Pogre{ en matemati -ki znak.
B	Pogre{ no mesto na $\frac{8}{3}$ .
C	Pogre{ na vari jabl a od desnata strana.
D	To-no!

PTS: 1

DIF: Grade 7

REF: 7AF.1.0 Students express quantitative relationships by using algebraic terminology, expressions, equations, inequalities, and graphs:

OBJ: 7AF.1.1 Use variables and appropriate operations to write an expression, an equation, an inequality, or a system of equations or inequalities that represents a verbal description.

TOP: Algebra & Functions

MSC: LFS & EJ-415

9. 7AF1.2 Neka  $x = 7$  and  $y = -3$ . Zameni za da ja najde vrednost na i zrazot dol e:  
 $\frac{y(x \cdot y - 9)}{14}$ . Odgovorot da bi de reduci ran (dropkata da bi de skratena).

a. 18

c.  $\frac{45}{7}$

b.  $\frac{-45}{7}$

d.  $\frac{9}{7}$

ANS: C

$$\frac{y(x \cdot y - 9)}{14} = \frac{-3(7 \cdot -3 - 9)}{14} = \frac{90}{14} = \frac{45}{7}$$

	Feedback
A	Mora{ da pomno` i { pred da zameni { .
B	I ma{ pogre{ en znak.
C	To~no!
D	I ma{ podel eno dvapati so i meni tel ot.

PTS: 1

DIF: Grade 7

REF: 7AF.1.0 Students express quantitative relationships by using algebraic terminology, expressions, equations, inequalities, and graphs:

OBJ: 7AF.1.2 Use the correct order of operations to evaluate algebraic expressions.

TOP: Algebra & Functions

MSC: LFS & EJ-415

10. 7AF1.2 Neka  $x = 8$ . Zameni za da ja najde{ vrednosta na i zrazot dol u:

$$\frac{[2(x+8) - \frac{7}{4}(2 \cdot x - 4)]^2}{5}$$

a.  $\frac{9}{5}$

c.  $\frac{121}{5}$

b.  $\frac{583}{5}$

d.  $\frac{324}{5}$

ANS: C

$$\frac{[2(8+8) - \frac{7}{4}(2 \cdot 8 - 4)]^2}{5} = \frac{(32 - 21)^2}{5} = \frac{11^2}{5} = \frac{121}{5}$$

	Feedback
A	Mora{ da go upotrebi { di stri buti vni ot zakon
B	Pogre{ na presmetkata.
C	To-no!
D	Mora{ da pomno` i { pred da odzemi { vo vtori ot ~l en.

PTS: 1

DIF: Grade 7

REF: 7AF.1.0 Students express quantitative relationships by using algebraic terminology, expressions, equations, inequalities, and graphs:

OBJ: 7AF.1.2 Use the correct order of operations to evaluate algebraic expressions.

TOP: Algebra & Functions

MSC: LFS & EJ-415