

Przekątna kwadratu. Wysokość trójkąta równo – odpowiedzi

GRUPA A

1. C
2. C
3. A
4. $17\sqrt{2}$ cm
5. $11\sqrt{3}$ cm
6. $\frac{20}{\sqrt{2}} = 10\sqrt{2}$
7. $\frac{12}{\sqrt{3}} = 4\sqrt{3}$
8. $\frac{25}{2} + \frac{25}{2}\sqrt{3}$
9. $10\sqrt{3}$ m
10. $9\sqrt{3}$
11. 16 cm, 48 cm, $64\sqrt{3}$ cm²; 10 m, $5\sqrt{3}$ m, 30 m
12. A
13. $20 + 20\sqrt{3}$ cm
14. a) $49\sqrt{3}$ cm², b) 33 cm
- 15.
- *16. 72

GRUPA B

1. D
2. A
3. C
4. $16\sqrt{2}$ cm
5. $14\sqrt{3}$ cm
6. $\frac{22}{\sqrt{2}} = 11\sqrt{2}$
7. $\frac{42}{\sqrt{3}} = 14\sqrt{3}$
8. $\frac{81}{2} + \frac{81}{2}\sqrt{3}$
9. $8\sqrt{3}$ m
10. $10\sqrt{3}$
11. 14 cm, 42 cm, $49\sqrt{3}$ cm²; 12 m, $6\sqrt{3}$ m, 36 m
12. C
13. $12 + 12\sqrt{3}$ cm
14. a) $81\sqrt{3}$ cm², b) 24 cm
- 15.

*16. 36

GRUPA C

1. A

2. B

3. D

4. $12\sqrt{2}$ cm

5. $15\sqrt{3}$ cm

6. $\frac{18}{\sqrt{2}} = 9\sqrt{2}$

7. $\frac{60}{\sqrt{3}} = 20\sqrt{3}$

8. $32 + 32\sqrt{3}$

9. $7\sqrt{3}$ m

10. $11\sqrt{3}$

11. 18 cm, 54 cm, $81\sqrt{3}$ cm²; 8 m, $4\sqrt{3}$ m, 24 m

12. A

13. $24 + 24\sqrt{3}$ cm

14. a) $16\sqrt{3}$ cm², b) 0,6 dm

15.

*16. 60

GRUPA D

1. D

2. B

3. B

4. $15\sqrt{2}$ cm

5. $13\sqrt{3}$ cm

6. $\frac{16}{\sqrt{2}} = 8\sqrt{2}$

7. $\frac{24}{\sqrt{3}} = 8\sqrt{3}$

8. $18 + 18\sqrt{3}$

9. $17\sqrt{3}$ m

10. $3\sqrt{3}$

11. 10 cm, 30 cm, $25\sqrt{3}$ cm²; 18 m, $9\sqrt{3}$ m, 54 m

12. C

13. $16 + 16\sqrt{3}$ cm

14. a) $64\sqrt{3}$ cm², b) 21 cm

15.

*16. 84

GRUPA E

1. B
2. B
3. A
4. $11\sqrt{2}$ cm
5. $17\sqrt{3}$ cm
6. $\frac{14}{\sqrt{2}} = 7\sqrt{2}$
7. $\frac{66}{\sqrt{3}} = 22\sqrt{3}$
8. $\frac{9}{2} + \frac{9}{2}\sqrt{3}$
9. $11\sqrt{3}$ m
10. $8\sqrt{3}$
11. 8 cm, 24 cm, $16\sqrt{3}$ cm²; 16 m, $8\sqrt{3}$ m, 48 m
12. A
13. $8 + 8\sqrt{3}$ cm
14. a) $9\sqrt{3}$ cm², b) 30 cm
- 15.
- *16. 48

GRUPA F

1. B
2. A
3. B
4. $13\sqrt{2}$ cm
5. $16\sqrt{3}$ cm
6. $\frac{24}{\sqrt{2}} = 12\sqrt{2}$
7. $\frac{30}{\sqrt{3}} = 10\sqrt{3}$
8. $72 + 72\sqrt{3}$
9. $10\sqrt{3}$ m
10. $12\sqrt{3}$
11. 4 cm, 12 cm, $4\sqrt{3}$ cm²; 22 m, $11\sqrt{3}$ m, 66 m
12. C
13. $12 + 12\sqrt{3}$ cm
14. a) $4\sqrt{3}$ cm², b) 27 cm
- 15.
- *16. 12

GRUPA G

1. A
2. A
3. C
4. $10\sqrt{2}$ cm
5. $19\sqrt{3}$ cm
6. $\frac{30}{\sqrt{2}} = 15\sqrt{2}$
7. $\frac{48}{\sqrt{3}} = 16\sqrt{3}$
8. $\frac{49}{2} + \frac{49}{2}\sqrt{3}$
9. $8\sqrt{3}$ m
10. $4\sqrt{3}$
11. 6 cm, 18 cm, $9\sqrt{3}$ cm²; 14 m, $7\sqrt{3}$ m, 42 m
12. B
13. $20 + 20\sqrt{3}$ cm
14. a) $121\sqrt{3}$ cm², b) 18 cm
- 15.
- *16. 24

GRUPA H

1. C
2. B
3. D
4. $18\sqrt{2}$ cm
5. $12\sqrt{3}$ cm
6. $\frac{26}{\sqrt{2}} = 13\sqrt{2}$
7. $\frac{54}{\sqrt{3}} = 18\sqrt{3}$
8. $8 + 8\sqrt{3}$
9. $14\sqrt{3}$ m
10. $5\sqrt{3}$
11. 12 cm, 36 cm, $36\sqrt{3}$ cm²; 20 m, $10\sqrt{3}$ m, 60 m
12. A
13. $8 + 8\sqrt{3}$ cm
14. a) $100\sqrt{3}$ cm², b) 6 cm
- 15.
- *16. 84

GRUPA I

1. A
2. D
3. D
4. $14\sqrt{2}$ cm
5. $20\sqrt{3}$ cm
6. $\frac{28}{\sqrt{2}} = 14\sqrt{2}$
7. $\frac{18}{\sqrt{3}} = 6\sqrt{3}$
8. $\frac{121}{2} + \frac{121}{2}\sqrt{3}$
9. $11\sqrt{3}$ m
10. $7\sqrt{3}$
11. 22 cm, 66 cm, $121\sqrt{3}$ cm²; 4 m, $2\sqrt{3}$ m, 12 m
12. D
13. $24 + 24\sqrt{3}$ cm
14. a) $36\sqrt{3}$ cm², b) 15 cm
- 15.
- *16. 12

GRUPA J

1. C
2. A
3. A
4. $20\sqrt{2}$ cm
5. $18\sqrt{3}$ cm
6. $\frac{12}{\sqrt{2}} = 6\sqrt{2}$
7. $\frac{36}{\sqrt{3}} = 12\sqrt{3}$
8. $50 + 50\sqrt{3}$
9. $17\sqrt{3}$ m
10. $6\sqrt{3}$
11. 20 cm, 60 cm, $100\sqrt{3}$ cm²; 6 m, $3\sqrt{3}$ m, 18 m
12. C
13. $16 + 16\sqrt{3}$ cm
14. a) $25\sqrt{3}$ cm², b) 12 cm
- 15.
- *16. 48