



Grade 8 Math Exam

2013

Adapted

Mathematics

10

8. Which number is a perfect square?

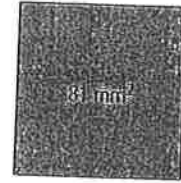
- A 10
- C 50

- B 20
- D 100

9. What is the side length of the square?

- A 6 mm
- C 12 mm

- B 9 mm
- D 18 mm



10. A square has a side length of 7 cm. What is the area of the square?

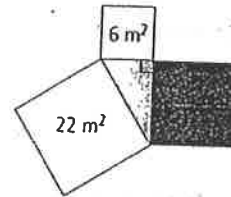
- A 14 cm^2
- C 28 cm^2

- B 21 cm^2
- D 49 cm^2

11. A right triangle has squares on each of its sides. What is the area of the black square?

- A 4 m^2
- C 16 m^2

- B 14 m^2
- D 28 m^2



12. The value of $\sqrt{51}$ is closest to which whole number?

- A 7
- C 49

- B 8
- D 51



13. What is 0.035 as a percent?

- A 35%
- C 3.5%
- B 3%
- D 0.35%

14. What is 135% as a decimal?

- A 0.135
- C 13.5
- B 1.35
- D 135

15. What is 70% as a fraction?

- A $\frac{35}{10}$
- C $\frac{7}{10}$
- B $\frac{7}{50}$
- D $\frac{28}{50}$

16. What is $\frac{1}{8}$ as a percent?

- A 0.0125%
- C 1.25%
- B 0.125%
- D 12.5%

25. What is the value of the expression $\frac{1}{2} + \frac{1}{6} \times \frac{5}{4}$?

A $\frac{12}{24}$

B $\frac{5}{8}$

C $\frac{23}{24}$

D $\frac{5}{4}$

Brackets, multiply or divide,
then add or subtract.

26. What is $\frac{3}{4} \div \frac{5}{12}$ in lowest terms?

A $\frac{9}{5}$

B $\frac{5}{16}$

C $\frac{36}{20}$

D $\frac{15}{48}$

$V = \text{area of base} \times \text{height of prism}$
Volume of rectangular prism: $V = l \times w \times h$
Volume of triangular prism: $V = (b \times h \div 2) \times h$
Volume of a cube: $V = s^3$ or $V = s \times s \times s$

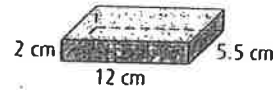
27. What is the volume of the right rectangular prism?

A 101 cm^3

B 126 cm^3

C 132 cm^3

D 144 cm^3



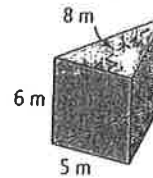
28. What is the volume of the right triangular prism?

A 120 m^3

B 180 m^3

C 240 m^3

D 480 m^3



29. What is the volume of the cube?

A 64 cm^3

B 72 cm^3

C 384 cm^3

D 512 cm^3

