Unit 1 Review for January Exam
Answer Section

Chapter 1:Perfect Squares & Surface Area

MULTIPLE CHOICE

1. A
2. A
3. A
4. B
5. B
6. D
7. B
8 C
9. C
10. D
11. C
12. C
13. D
14. C

SHORT ANSWER

15.) 1.7

16) $\dfrac{5}{6}$

17) 18

18a) The length of one side of the garden is $\sqrt{240.25}$ m, or 15.5 m.
  b) The perimeter of the garden is 4×15.5 m, or 62 m.

19) $\sqrt{0.27} \doteq 0.5$

20) The length of the hypotenuse is about 3.9 cm.

21) The length of side s is about 7.1 cm.

22) The surface area of the composite object is 2650 cm².

23) The surface area of the object is about 560 cm².

24) The surface area of the object is about 1526 cm².

PROBLEM

25. $\sqrt{6.47 + 7.36 + 17.53} = \sqrt{31.36}$
$$= 5.6$$

26. $\sqrt{\dfrac{\sqrt{81} + \sqrt{49}}{\sqrt{196} - \sqrt{100}}} = \sqrt{\dfrac{9 + 7}{14 - 10}}$
$$= \sqrt{\dfrac{16}{4}}$$
$$= 2$$

27. $AC^2 = AD^2 + DC^2$
$$= 21.3^2 + 14.2^2$$
$$= 655.33$$
$$AC = \sqrt{655.33}$$
$$\doteq 25.6$$

The length of AC is about 25.6 cm.