

BLM Answers

BLM 14-1 Hazardous Household Product

Symbols

1. a) poisonous: if you swallow or inhale, you could become sick or die
 b) flammable: can catch fire quickly. Keep this product away from heat, flames, and sparks
 c) explosive: will explode if the container is heated or if a hole is punched in it. Metal or plastic can fly out and hurt your eyes
 d) corrosive: can eat through other materials
 Students should copy the symbols from the table.
2. and 3. Answers will vary.

BLM 14-2 Homemade Hand Cream

11. a) Answers may vary. Sample answers:
 Similarities: same consistency; feels good on hands
 b) Differences: does not have perfume added; feels sticky
12. a) No. None of the ingredients are preservatives.
 b) Answers may vary. Sample answers:
 - Do not consume product.
 - Keep out of reach of children.
13. Answers will vary. Students could test ease of application and use, scent and appearance, or thickness of products.

BLM 14-3 Plant Fertilizers

Advertising claim: Use Multi-Gro Fertilizer and your house plants will grow twice as big.

7. Answers will vary.
9. Observations will vary.
10. Graphs will vary depending on the data students use. Make sure that the graph has a title and that both axes are titled and labelled.
11. a) Answers will vary depending on fertilizer used. The fertilized house plant will probably be larger.
 b) Explanations will vary.
12. The fertilized plant probably did not grow twice as big as the other plant. Students may reject the advertising claim because the fertilized plant did not grow twice as large. It may have done so over time. It is difficult to make any conclusion based on data from two plants.

BLM 14-4 Chapter 14 Practice Test

1. i) scientific claim
2. a) testimonial
3. d) weasel claim

4. g) unfinished claim
5. c) manure
6. f) endorsement.
7. a) T
 b) F. Scientists control all of the variables when conducting an experiment.
 c) F. The second number tells the percentage of phosphorus in the product *or* The first number tells the percentage of nitrogen in the product.
 d) F. Homemade personal care products do not contain any natural preservatives that keep them from going bad.
8. a) manipulated variable: treatment (water or fertilizer)
 b) control: water treatment
 c) Sample answer:
 - Without a control, you don't know if the observations are the results of the treatment or due to other reasons.
9. Answers may vary. Look for one of the following benefits and drawbacks for each:
 - a) manure
 benefits: readily available; needs to be disposed of anyway; will decompose to form humus; adds nutrients slowly to soil
 drawbacks: requires careful management; must be stored to prevent bacteria and nutrients from seeping into ground water; a large volume is required; bacteria from stored piles can seep into ground water and contaminate the water
 - b) commercial fertilizer
 benefits: rapid increase in yields; easy to store; inexpensive
 drawbacks: large amounts of energy are needed for its manufacture; any that runs off into streams can promote the growth of algae; using too much kills plants
10. a) Students should underline: "Jasman Keefer" and "has 25% more vitamins and minerals to keep you healthy."
 b) endorsement and unfinished claim

BLM 14-5 Chapter 14 Test

1. c) unfinished claim
2. b) manure
3. g) endorsement
4. a) weasel claim
5. h) scientific claim
6. d) commercial chemical fertilizer
7. e) testimonial

8. a) T
 b) F. It is important for consumers to be aware of advertising techniques.
 c) F. A fair test has one manipulated variable, one or more responding variables, and a control.
 d) T
9. The claim does not explain what “revitalizes” means.
10. a) Students should underline three claims:
- “Twenty-three leading sleep specialists recommend...”
 - “it conforms to your body shape”
 - “...is guaranteed to give you a better night’s sleep”
- b) In order of the answers to a): scientific claim; weasel claim; unfinished claim
- c) Answers will vary. Such phrases mean different things to different people, and thus are not useful or accurate. Sample answers:
- getting to sleep quickly
 - staying asleep without waking up frequently
 - waking up feeling refreshed
11. a) both add nutrients to the soil
 b) and c) Manure Drawbacks: Look for two of the following: requires careful management; must be stored to prevent bacteria and nutrients from seeping into ground water; a large volume is required; bacteria from stored piles can seep into ground water and contaminate the water
 d) and e) Commercial Fertilizer Drawbacks: Look for two of the following: large amounts of energy are needed for its manufacture; any that runs off into streams can promote the growth of algae; using too much kills plants