Math Basics for the Health Care Professional, 5e (Lesmeister)
Unit 1: Whole Number Review

Test A

1) Patient Smith wants to calculate the number of calories in snack foods eaten each day. One beverage contains 120 calories, 3 servings of chips contain 135 calories each, 1 apple contains 90 calories, and a Popsicle contains 112 calories. How many calories has the patient ingested in snack foods alone?
Answer: 727 calories
Objective: 1-3

2) Complete this number statement: 8,358 - _____ = 7,449
Answer: 909
Objective: 1-4

3) 139×13
Answer: 1,807
Objective: 1-5

4) The medical office purchased a piece of examination equipment for $6,425.50. Two years later, the equipment was sold to another office for $4,895.25. How much money did the first medical office lose in the sale of the equipment?
Answer: $1,530.25
Objective: 1-4 and 1-8

5) $2,992 \div 88$
Answer: 34
Objective: 1-7

6) If a dozen loaves of bread for the nursing center's kitchen cost $18, how much does each loaf cost?
Answer: $1.50
Objective: 1-7 and 1-8

7) Maria worked as certified nursing assistant for three months last year. If her monthly pay was $1,240, $1,620, and $1,460, what was her average pay per month?
Answer: $1,440
Objective: 1-11

Round the following:

8) 14,228 to the nearest ten
Answer: 14,230
Objective: 1-9

9) 7,826 to the nearest hundred
Answer: 7,800
Objective: 1-9

10) Write 0746 in standard time.
Answer: 7:46 A.M.
Objective: 1-13

11) Multiply 45 times 23.
Answer: 1,035
Objective: 1-5

12) $1,925 \div 5$
Answer: 385
Objective: 1-7

13) $3 \times 125 + Z = 435$
Answer: 60
Objective: 1-8

14) Use estimation to solve this problem: $250 + 9,807 + 33$
Answer: May vary; 10,080
Objective: 1-10

15) Take 485 away from 1,200.
Answer: 715
Objective: 1-4

16) Divide 1,380 by 6.
Answer: 230
Objective: 1-7

17) If one foot has 12 inches, how many inches are in 16 feet?
Answer: 192
Objective: 1-5 and 1-14

18) The certified nursing assistants at Hoover Hospital average 13 minutes to change and remake a bed. If each nursing assistant changes ten beds a day, how many minutes would be spent on changing and remaking these ten beds?
Answer: 130 minutes
Objective: 1-5 and 1-14

19) Mariyan is dieting and exercising to lose weight. She has lost four pounds this month on her current diet and exercise plan. If she continues at the same rate of weight loss, how much additional weight will she lose in six more months?
Answer: 24 pounds
Objective: 1-5 and 1-14

20) What is the mean of the data set {96, 90, 72, and 98}?
Answer: 89
Objective: 1-11

21) Mary ate 25 grams of fiber on Monday, 34 grams on Tuesday and Wednesday, 23 grams on Thursday, 18 grams on Friday, 22 grams on Saturday, and 26 grams on Sunday. What is the mean or average number of grams of fiber she consumed daily?
Answer: 26 grams
Objective: 1-11

22) Use one of these symbols (=, >, <, =, or =) to complete the number statement: 109 - 19 _____ 9×11.
Answer: <
Objective: 1-1

23) Solve: 813 + _____ + 25 = 2010
Answer: 1,172
Objective: 1-3

24) Add 3,987 and 1,275. Then round the answer to the nearest hundred.
Answer: 5,300
Objective: 1-3 and 1-9

25) Bob wants to calculate the sum of the calories in his snacks. Today he ate four snacks that were 90 calories each, and then he consumed two snacks that were 130 calories each. Write a number statement to represent this information.
Answer: $4(90) + 2(130) = 620$, or $90 + 90 + 90 + 90 + 130 + 130 = 620$
Objective: 1-2 and 1-14

Test B

1) Patient Buckley wants to calculate the number of calories in snack foods eaten each day. One beverage contains 165 calories, 3 servings of chips contain 180 calories each, 1 apple contains 90 calories, and a Popsicle contains 115 calories. How many calories has the patient ingested in snack foods alone?
Answer: 910 calories
Objective: 1-3

2) $3,245 -$ _____ $= 2,637$
Answer: 608
Objective: 1-4

3) 292×97
Answer: 28,324
Objective: 1-5

4) The medical office purchased a piece of examination equipment for $6,425.50. Two years later, the equipment was sold to another office for $3,765.25. How much money did the first medical office lose in the sale of the equipment?
Answer: $2,660.25
Objective: 1-4 and 1-8

5) $6,754 \div 22$
Answer: 307
Objective: 1-7

6) If two cases of Red Delicious apples for the nursing center's kitchen cost $72, how much does each case cost?
Answer: $36.00
Objective: 1-7 and 1-8

7) Fred worked as a certified nursing assistant for four months last year. If his monthly pay was $1,440, $1,620, $1,460, and $1,688, what was his average pay per month?
Answer: $1,552
Objective: 1-11

Round the following:

8) 18,274 to the nearest ten
Answer: 18,270
Objective: 1-9

9) 9,647 to the nearest hundred
Answer: 9,600
Objective: 1-9

10) Write 1730 in standard time.
Answer: 5:30 P.M.
Objective: 1-13

11) Multiply 57 times 92.
Answer: 5,244
Objective: 1-5

12) $3\overline{)642}$
Answer: 214
Objective: 1-7

13) $Z + 137 \times 2 = 319$
Answer: 45
Objective: 1-8

14) Use estimation to solve this problem: 29 + 156 + 1,609
Answer: May vary; 1,780 or 1,790, depending on rounding method
Objective: 1-10

15) Take 880 away from 5,301.
Answer: 4,421
Objective: 1-4

16) Divide 1,350 by 9.
Answer: 150
Objective: 1-7

17) If 1 foot has 12 inches, how many inches are in 5 feet?
Answer: 60
Objective: 1-5 and 1-14

18) The certified nursing assistants at Hoover Hospital average 9 minutes to change and remake a bed. If each nursing assistant changes fifteen beds a day, how many minutes would be spent on changing and remaking these fifteen beds?
Answer: 135 minutes
Objective: 1-5 and 1-14

19) Martin is dieting and exercising to lose weight. He has lost three pounds this month on his current diet and exercise plan. If he continues at the same rate of weight loss, how much additional weight will he lose in eight more months?
Answer: 24 pounds
Objective: 1-5 and 1-14

20) Today's clients are ages 15, 72, 8, 89, 14, 16, 24, and 38. What is the range of the clients' ages?
Answer: 81, or the range is 8 to 89.
Objective: 1-11

21) If Bob spends $239.00 on medication each month, what is the amount he spends on medication for six months?
Answer: $1,434.00
Objective: 1-11

22) Terri ate 25 grams of fiber on Monday, 24 grams on Tuesday and Wednesday, 23 grams on Thursday, 16 grams on Friday, 20 grams on Saturday, and 36 grams on Sunday. What is the mean or average amount of fiber she consumed daily?
Answer: 24 grams
Objective: 1-1

23) Solve: 1400 - 750 + _____ = 662
Answer: 12
Objective: 1-3 and 1-4

24) Use one of these symbols (=, >, <, =, or =) to complete the number statement
24×3 _____ $7 \times 3 \times 2$
Answer: >
Objective: 1-3 and 1-9

25) Write a number statement that represents five hospital operating rooms each having an average of six surgeries per day. What is the average number of surgeries in a week?
Answer: 210
Objective: 1-2 and 1-14

Test C

1) Patient Smith wants to calculate the number of calories in snack foods eaten each day. One beverage contains 120 calories, 2 servings of chips contain 135 calories each, 1 apple contains 100 calories, and a Popsicle contains 160 calories. How many calories has the patient ingested in snack foods alone?
Answer: 650
Objective: 1-3

2) Complete this number statement: 4,286 - _____ = 1,309
Answer: 2,977
Objective: 1-4

3) 214×87
Answer: 18,618
Objective: 1-5

4) The medical office purchased a piece of examination equipment for $7,895.35. Two years later, the equipment was sold to another office for $4,895.25. How much money did the first medical office lose in the sale of the equipment?
Answer: $3,000.10
Objective: 1-4 and 1-8

5) $1,486 \div 44$
Answer: 33 R 34
Objective: 1-7

6) If a dozen loaves of bread for the nursing center's kitchen cost $28, how much does each loaf cost?
Answer: $2.33
Objective: 1-7 and 1-8

7) Maria worked as a certified nursing assistant for three months last year. If her monthly pay was $1,460, $1,620, and $1,230, what was her average pay per month?
Answer: $1,436.67
Objective: 1-11

Round the following:

8) 7,839 to the nearest ten = _____
Answer: 7,840
Objective: 1-9

9) 9,258 to the nearest hundred = _____
Answer: 9,300
Objective: 1-9

10) Write 0513 in standard time.
Answer: 5:13 A.M.
Objective: 1-13

11) Multiply 12 times 21.
Answer: 252
Objective: 1-5

12) $6 \overline{)892}$
Answer: 148 R 4
Objective: 1-7

13) $3 \times 72 - Z = 202$
Answer: 14
Objective: 1-8

14) Use estimation to calculate this problem: 12 + 234 + 5,205 + 13
Answer: May vary; 5,450
Objective: 1-10

15) Take 587 away from 1,500.
Answer: 913
Objective: 1-4

16) Divide 2,540 by 8.
Answer: 317.5
Objective: 1-7

17) If 1 foot has 12 inches, how many inches are in 7 feet?
Answer: 84
Objective: 1-5 and 1-14

18) The certified nursing assistants at Hoover Hospital average 13 minutes to change and remake a bed. If each nursing assistant changes 12 beds a day, how many minutes would be spent on changing and remaking these 12 beds?
Answer: 156 minutes or 2 hours 36 minutes
Objective: 1-5 and 1-14

19) Mariyan is dieting and exercising to lose weight. She has lost five pounds this month on her current diet and exercise plan. If she continues at the same rate of weight loss, how much additional weight will she lose in six more months?
Answer: 30 pounds
Objective: 1-5 and 1-14

20) What is the mode of the data set {7, 8, 11, 10, 8, 70, and 16}?
Answer: 8
Objective: 1-11

21) Mary ate 23 grams of fiber on Monday, 30 grams on Tuesday and Wednesday, 26 grams on Thursday, 18 grams on Friday, 25 grams on Saturday, and 9 grams on Sunday. What is the mean or average number of grams of fiber she consumed daily?
Answer: 23
Objective: 1-11

22) Use one of these symbols (=, >, <, =, or =) to complete the number statement:
210 - 128 _____ 8×11
Answer: $82 < 88$
Objective: 1-1

23) Solve: 1,702 - _____ + 179 = 1,786
Answer: 95
Objective: 1-3 and 1-4

24) Add 2,498 and 1,892. Then round the answer to the nearest hundred.
Answer: 4,400
Objective: 1-3 and 1-9

25) A client needs to lose weight before surgery. He is on a calorie-restricted diet and an exercise regime. The client weighed in at 295 pounds; he has since lost 13 pounds, gained 5 pounds, and then lost 14 pounds in three weeks. Write a number statement representing this information.
Answer: 295 - 13 + 5 - 14 = 273
Objective: 1-2 and 1-14