11-1

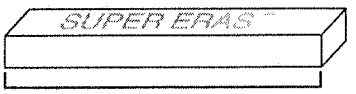
Name _____ Date _____

Homework Practice

Units of Length

Estimate and then measure the length of each object. Find the measurement to the nearest $\frac{1}{4}$ inch or $\frac{1}{8}$ inch as shown.

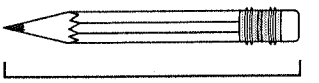
1. to the nearest $\frac{1}{4}$ in.



Estimate: _____

Measurement: _____

2. to the nearest $\frac{1}{8}$ in.



Estimate: _____

Measurement: _____

Choose an appropriate unit for measuring each length. Write *inch, foot, yard,* or *mile*.

3. length of a classroom _____

4. length of a pencil _____

5. distance between two cities _____

6. length of a football field _____

7. thickness of a book _____

8. width of Atlantic Ocean _____

Complete.

9. 4 ft = _____ in.

10. $1\frac{1}{2}$ yd = _____ in.

11. 15 ft = _____ yd

12. 3 yd = _____ in.

13. 5 mi = _____ ft

14. 40 in. = _____ ft

15. 180 in. = _____ yd

16. $2\frac{1}{3}$ yd = _____ ft

17. 4 mi = _____ yd

18. $\frac{1}{2}$ mi = _____ ft

19. $5\frac{1}{2}$ ft = _____ in.

20. 5 ft 11 in. = _____ in.

Spiral Review

Subtract. Write each difference in simplest form. Check your answer by drawing a picture

21. $8\frac{3}{10} - 5\frac{7}{10}$ _____

22. $6\frac{1}{4} - 2\frac{3}{4}$ _____

23. $14 - 3\frac{1}{3}$ _____

24. $12 - 9\frac{1}{4}$ _____

MEASUREMENT ABBREVIATIONS

standard

inch	in.
foot	ft.
yard	yd
mile	mi
miles per hour	mph
ounce	oz.
pound	lb.
pint	pt.
quart	qt.
gallon	gal
cup	c
teaspoon	t, tsp.
tablespoon	T, tbsp.
Fahrenheit	F

metric

Celsius, Centigrade	C
centimeter	cm
gram	g, gr
kilogram	kg
kiloliter	kl
kilometer	km
kilowatt	kw, kW
kilowatt-hour	kwh, kWh
liter	l
meter	m
milligram	mg
milliliter	ml
millimeter	mm
watt	W

time

second	sec
minute	min
hour	hr

12-1

Name _____ Date _____

Homework Practice

Units of Length

Complete.

1. 26 cm = _____ mm
2. 700 cm = _____ m
3. 8 km = _____ m
4. 0.6 m = _____ cm
5. 4,000 mm = _____ m
6. 250 mm = _____ cm
7. 800 cm = _____ mm
8. 23 cm = _____mm
9. 0.25 km = _____ m
10. 300 cm = _____ m
11. 6 m = _____ cm
12. 3,000 m = _____ km
13. 6 cm = _____ mm
14. 5 km = _____ m

Solve.

15. Which is a more reasonable estimate for the depth of a swimming pool: 10 millimeters, 10 meters, or 10 kilometers?

_____

_____

16. When completed, a tunnel will be 1.3 km long. What is this length in meters?

_____

Spiral Review

Find each elapsed time. (Lesson 11–7)

17. 6:29 A.M. to 7:46 A.M. _____
18. 11:09 A.M. to 12:05 P.M. _____
19. 4:16 P.M. to 6:21 P.M. _____
20. 5:30 P.M. to 7:19 P.M. _____

11-3

Name _____ Date _____

Homework Practice

Units of Weight

Complete.

1. 16 lb = _____ oz
2. 800 oz = _____ lb
3. 4 T = _____ lb
4. 126 lb = _____ oz
5. 16,000 lb = _____ T
6. 2,000 oz = _____ lb
7. 43 lb = _____ oz
8. 2,000 lb = _____ T
9. 3 lb = _____ oz
10. 144 oz = _____ lb
11. 50 lb = _____ oz
12. 18,000 lb = _____ T

Replace ◯ with <, >, or = to make a true statement.

13. 34 lb ◯ 534 oz
14. 290 lb ◯ 4,640 oz
15. 5 T ◯ 9,000 lb
16. 160 oz ◯ 10 lb
17. 400 oz ◯ 1 T
18. 150 lb ◯ 240 oz
19. 28 lb ◯ 450 oz
20. 19 lb ◯ 300 oz

Spiral Review

Solve. Use the *draw a diagram* strategy. (Lesson 11–2)

21. At a business meeting, everyone shook hands with everyone else exactly once. If there were a total of 10 handshakes, how many people were at the meeting?

_____

22. Amelia has 4 different pictures of her friends that she wants to hang on her wall. In how many different ways can she arrange the pictures?

_____

12-3

Name _____ Date _____

Homework Practice

Units of Mass

Complete.

1. 90 g = _____ kg
2. 300 g = _____ kg
3. 1,000 mg = _____ g
4. 0.9 kg = _____ g
5. 5 g = _____ kg
6. 0.004 kg = _____ g
7. 25 kg = _____ g
8. 670 g = _____ kg

Replace ◯ with <, >, or = to make a true statement.

9. 2.4 g ◯ 240 mg
10. 8 kg ◯ 80,000 g
11. 1.32 g ◯ 1,320 mg
12. 510 mg ◯ 5.1 g
13. 3,500 mg ◯ 35 g
14. 370 mg ◯ 3.7 g

Solve.

15. A box of pasta has a mass of 454 grams. How many boxes should Leo buy if he wants to cook at least 1 kilogram of pasta? Explain.

_____

Spiral Review

Is the estimate reasonable? Explain. (Lesson 12–2)

16. Miriam's computer weighs 165 ounces. She estimates that it weighs about 20 pounds. Is Miriam's estimate reasonable?

_____

17. Avner needs to buy 12 yards of fabric. At the store, all of the fabric is marked in feet. Avner estimates that 40 feet of fabric will be long enough. Is his estimate reasonable?

_____

11-4

Name _____ Date _____

Homework Practice

Units of Capacity

Complete.

1. 6 c = _____ fl oz
2. 48 qt = _____ gal
3. 60 pt = _____ qt
4. 96 fl oz = _____ pt
5. 16 qt = _____ gal
6. 32 fl oz = _____ pt
7. 72 qt = _____ gal
8. 5 c = _____ fl oz
9. 22 c = _____ fl oz
10. 64 fl oz = _____ c
11. 52 pt = _____ c
12. 44 qt = _____ gal

Replace ◯ with <, >, or = to make a true statement.

13. 64 fl oz ◯ 7 c
14. 4 gal ◯ 8 pt
15. 2 qt ◯ 1 gal
16. 32 fl oz ◯ 4 c
17. 9 c ◯ 70 fl oz
18. 5 pt ◯ 80 fl oz
19. 18 c ◯ 6 pt
20. 12 qt ◯ 4 gal

Spiral Review

Complete. (Lesson 11-3)

21. 128 oz = _____ lb
22. 16 lb = _____ oz
23. 12,000 lb = _____ T
24. 3 T = _____ lb
25. 48 oz = _____ lb
26. 240 oz = _____ lb
27. 59 lb = _____ oz
28. 4,000 lb = _____ T
29. 8 T = _____ lb
30. 80 oz = _____ lb

12-4

Name _____ Date _____

Homework Practice

Units of Capacity

Complete.

1. 7,200 mL = _____ L
2. 490 mL = _____ L
3. 0.1 L = _____ mL
4. 7,000 mL = _____ L
5. 3 L = _____ mL
6. 8 mL = _____ L
7. 9,000 mL = _____ L
8. 0.53 L = _____ mL

Replace each ◯ with <, >, or = to make a true statement.

9. 6.4 L ◯ 640 mL
10. 5 L ◯ 50,000 mL
11. 2.32 L ◯ 2,320 mL
12. 410 mL ◯ 4.1 L
13. 1,500 mL ◯ 15 L
14. 970 mL ◯ 9.7 L

Solve.

15. Tracy has a 5-liter punch bowl. She buys two containers of juice that hold 1.75 liters and 2.7 liters. Can she empty the two containers into the bowl? Explain.

_____

_____

Spiral Review

Complete. (Lesson 12–3)

16. 1 g = ▒ mg _____
17. 350 g = ▒ kg _____
18. 4,600 g = ▒ kg _____
19. 1 kg = ▒ g _____

11-5

Name _____ Date _____

Homework Practice

Units of Time

Complete.

1. 4 wk = _____ days

2. 180 s = _____ min

3. 10 y = _____ mo

4. 3 d = _____ h

5. 4 min = _____ s

6. 5 h = _____ min

7. 10 min = _____ s

8. 36 wk = _____ d

9. 120 s = _____ min

10. 50 mo = _____ y _____ mo

11. 2 h = _____ s

12. 2 y = _____ mo

13. 30 min = _____ s

14. 3 d = _____ min

15. 4 wk = _____ h

16. 250 s = _____ min _____ s

17. 78 h = _____ d _____ h

18. 375 min = _____ h _____ min

Spiral Review

Complete. (Lesson 11-4)

19. 11 c = ☐ _____ fl oz

20. 16 qt = ☐ _____ gal

21. 50 c = ☐ _____ pt

22. 3 gal = ☐ _____ qt

23. 8 pt = ☐ _____ qt

24. 24 c = ☐ _____ pt

11-7

Name _____ Date _____

Homework Practice

Elapsed Time

Find each elapsed time.

1. 10:15 P.M. to 10:59 P.M. _____

2. 1:40 P.M. to 8:55 P.M. _____

3. 9:25 A.M. to 8:20 P.M. _____

4. 3:45 P.M. to 1:30 A.M. _____

5. 2:26 A.M. to 8:00 A.M. _____

6. 4:11 P.M. to 6:15 P.M. _____

7. 12:09 P.M. to 2:00 P.M. _____

8. 7:00 P.M. to 10:13 P.M. _____

9. 5:55 A.M. to 6:30 P.M. _____

10. 1:45 P.M. to 1:45 A.M. _____

11. 4:22 A.M. to 7:40 A.M. _____

12. 3:30 P.M. to 9:21 P.M. _____

13. 7:12 P.M. to 8:55 P.M. _____

14. 2:15 P.M. to 8:36 P.M. _____

15. 1:11 P.M. to 3:47 P.M. _____

16. 6:15 A.M. to 8:20 P.M. _____

17. 4:48 P.M. to 12:01 A.M. _____

18. 11:34 A.M. to 11:59 A.M. _____

Spiral Review

Use any strategy to solve each problem. (Lesson 11–6)

19. Aaron is saving money to purchase a new pair of rollerblades. So far he has saved $9 a week for the past 5 weeks. If the rollerblades cost $55, how much more does Aaron need to save?

_____

20. A vase holds 70 fluid ounces of water minus 6 fluid ounces. How many quarts of water does the vase hold?

_____

21. Riley has 2 gallons of punch. She is filling glasses that hold 8 fluid ounces. How many glasses can be filled with 2 gallons of juice?

_____

22. Janna's class took a trip to the water park. They traveled 120 miles and stopped for a snack. They drove 120 more miles to the water park. Later in the day they traveled 64 miles and stopped for dinner. They drove 176 more miles home. Estimate the total number of miles Janna's class traveled.

_____