C1

Number Sense and Problem Solving

CHAPTER ASSIGNMENT · 26 MARKS

Name _____ Class _____ No. _____ Date _____

Answer every question in the space given. You may use your calculator from Lesson 3 onwards. Show your working on word problems.

Practice questions from *GED® Test Prep Mathematics*, Chapter 1 (Number Sense and Problem Solving), for classroom use. Questions that used a picture in the book give its numbers in words. The Check yourself and Chapter quiz questions are Guru Jazzy's own.

Lesson 1 · Compare and order numbers

1.A Write the digit of **1,436,879** that is in each place. The first one is done for you.

Place	Digit
hundred thousands	4
hundreds	
ones	
millions	
thousands	
tens	
ten thousands	

1.B Round each number as directed.

Question	Answer
Round 544 to the nearest hundred.	
Round 76 to the nearest ten.	
Round 1058 to the nearest hundred.	
Round 11,632 to the nearest thousand.	
Round 1525 to the nearest thousand.	
Round 84 to the nearest hundred.	

1.C Circle the greater number in each pair: 100 or 89 · 339 or 341 · 1099 or 1145 · 125,391 or 119,450

1.D Write each set of numbers in order from least to greatest.

Numbers	Least to greatest
23, 18, 45, 39	
111, 89, 109, 91	
1087, 932, 909, 1139	
1429, 1420, 1432, 1425	
12,071, 11,098, 12,131	
15,356, 15,309, 15,298	

1.E When stacking items, the heaviest go at the bottom. Starting at the bottom, in what order should items weighing 45, 40, 50 and 48 pounds be stacked?

A	B	C	D
40, 45, 48, 50	45, 50, 40, 48	50, 48, 45, 40	50, 40, 45, 48

1.F Which shows 1,543,976 rounded to the nearest hundred thousand?

A	B	C	D
2,000,000	1,600,000	1,500,000	1,540,000

Lesson 2 · Whole number operations

2.1 Rewrite each problem in columns, then solve.

Problem	Answer	Problem	Answer	Problem	Answer	Problem	Answer
54 + 23		46 + 54		73 − 21		55 − 19	
105 + 85		2386 + 1692		100 − 57		2500 − 383	
20 + 12 + 33		245 − 131		30 + 75 + 75		378 − 85	
144 + 238 + 101		545 − 89		2095 + 324		1250 − 350	
10,326 + 982		15,890 − 705		108,755 + 22,442		44,789 − 13,890	

2.2 Boxes weigh 24 pounds, 8 pounds and 56 pounds. What is their total weight, in pounds?

A	B	C	D
78	88	150	160

2.3 Celia's share for lunch is $7. If she pays with a $20 bill, how much change should she get?

A	B	C	D
$3	$7	$13	$27

2.4 Solve. When multiplying more than two numbers, multiply the first two, then multiply by the next.

Problem	Answer	Problem	Answer	Problem	Answer	Problem	Answer
121 × 4		250 × 4		342 × 8		65 ÷ 5	
735 ÷ 7		189 ÷ 9		45 × 30		105 × 25	
211 × 16		280 ÷ 10		225 ÷ 15		114 ÷ 19	
50 × 5		179 ÷ 4		5 × 6 × 10		1004 ÷ 5	
25 × 3 × 2		7452 × 9		10,760 ÷ 20		12 × 8 × 4	

2.5 A fruit juice container holds 16 servings. If a serving is 6 ounces, how many ounces does the container hold in all?

A	B	C	D
10	22	76	96

2.6 A cashier has fifteen $5 bills. How much money does he have?

A	B	C	D
$15	$25	$75	$150

2.7 How many 2-foot lengths can be cut from a 12-foot string? [1]

Lesson 3 · Calculator skills

3.1 Use your calculator.

Problem	Answer	Problem	Answer	Problem	Answer
19 + 26 + 85 + 23		2579 − 1392		4 × 28 × 7	
2568 ÷ 107		12,356 + 14,728		107,899 − 93,457	
209 × 56		972 ÷ 18		20,540 ÷ 13	

3.2 Dan bought a used car with 16,741 miles on it. It now has 42,920 miles on it. How many miles has Dan put on the car?

A	B	C	D
16,741	26,179	42,920	59,661

3.3 A shipment of 20 computers arrived. Each is valued at $995. What is the total value of the shipment?

A	B	C	D
$995	$1015	$1990	$19,900

3.4 Use the 2nd key on your calculator.

Problem	Answer	Problem	Answer	Problem	Answer
√625		√324		√1225	
20% of 680		10% of 1250		15 is what % of 300?	
5% of 40		30% of 450		20 is what % of 400?	

3.5 Tanya paid 20 percent of $1680 as a down payment. How much was the down payment?

A	B	C	D
$20	$168	$336	$840

3.6 Aaron received a credit of $48 on a purchase of $960. What percent of $960 is $48?

A	B	C	D
5%	20%	48%	912%

Lesson 4 · Word problems

4.1 Peter wants to repaint his 700-square-foot apartment. He has 3500 square feet of wall to paint (not the floor or ceiling). Each gallon of paint covers 350 square feet of wall. How many gallons will he need?

A	B	C	D
2	5	10	15

4.2 Darryl wants each child at a party to get 2 party favors. The favors cost $3 each, and 11 children are coming. How many party favors does he need?

A	B	C	D
9	11	18	22

4.3 Sarah and Kate live 18 miles apart and work at the same office. Sarah lives 25 miles from the office and Kate lives 30 miles from it. How many miles farther from the office does Kate live than Sarah?

A	B	C	D
5	7	12	15

4.4 The Navarro family uses an average of 225 gallons of water a day, 5 gallons of which goes through their water filter. The filter can process 450 gallons before it needs replacing. After how many days will they need to replace it? [1]

4.5 Joyce's beauty salon posts this price list. Use it for (a) and (b).

Service	Minutes	Price
Manicure	30	$15
Pedicure	30	$25
Manicure & Pedicure	45	$35
Facial	45	$45
Makeover	60	$60

(a) How many minutes will it take Joyce to give 3 pedicures? [1]

A	B	C	D
30	55	75	90

(b) How much more does a makeover cost than a manicure & pedicure? [1]

A	B	C	D
$15	$20	$25	$35

4.6 Brandon can plant 6 seedlings per row, and the community garden gives each gardener 7 rows. What is the greatest number of seedlings he could plant? [1]

4.7 Sumayyah received $189 from selling the hats and gloves she knitted, and spent $27 on yarn. How much did she earn from her knitting? [1]

4.8 Farhana's produce company recorded these orders (cases) in July. Use the table for (a) to (c).

Restaurant	Asparagus	Boston lettuce	Carrots	Romaine lettuce	Tomatoes
A	2	3	1	4	3
B	4	4	2	2	1
C	0	0	3	4	3
D	1	2	2	3	4
E	3	0	3	2	1

(a) Boston lettuce costs $17 a case and romaine $23 a case. How much did Restaurant D spend on lettuce? **[2]**

A	B	C	D
$85	$93	$103	$143

(b) Delivery is $2 per case for the first 5 cases and $1 per case after that. What was Restaurant B's delivery charge? **[2]**

A	B	C	D
$13	$18	$20	$26

(c) Asparagus is $22 a case and tomatoes $15 a case. Which restaurant spent the most on the two together? **[2]**

A	B	C	D
Restaurant A	Restaurant B	Restaurant C	Restaurant D

4.9 Paper comes only in packs of 400 sheets. A student buys enough to fill 3 binders with 150 sheets each. How many sheets are left over?

A	B	C	D
17	50	350	450

4.10 Each batch of 24 cupcakes needs 2 cups of flour. The bakers have a bag holding 19 cups. How many whole batches can they bake?

A	B	C	D
9	38	216	228

4.11 A health plan costs $3000 a year for a family of six. Each member has $750 in medical expenses, and the plan pays all of them. How much does the family save by buying the plan?

A	B	C	D
$1500	$2000	$2500	$3000

Lesson 5 · Distance and cost

5.1 Each row gives two values. Write the one you solve for, and the formula you use. The first is done for you.

Given	Solve for	Formula
distance and time	rate	r = d ÷ t
rate and time		
distance and rate		
cost and number of units		
number of units and price per unit		
cost and price per unit		

5.2 Solve for the unknown.

Problem	Answer
Total cost of 4 flats of plants at $12 each	
Total cost of 12 boxes of cookies at $3 a box	
4 tires cost $320. Price of one tire?	
Raffle tickets are $5 each. How many for $25?	
$20 for 10 bus transfer tickets. Price per ticket?	
Distance: a car at 60 mph for 3 hours	
Distance: a train at 50 mph for 4 hours	
Time for a bus to go 25 miles at 25 mph	
A train goes 270 miles in 3 hours. Average speed?	
Time for a 75-mile delivery route at 25 mph	

5.3 A company sold $640 of gift boxes at $20 each. How many boxes did it sell?

A	B	C	D
32	320	660	1280

5.4 A truck driver went 275 miles in 5 hours. What was his average speed in miles per hour?

A	B	C	D
1375	280	270	55

Chapter practice questions

P1 Sales at 3 concession stands are $839, $527 and $726. What is the total?

A	B	C	D
$1581	$2092	$2178	$2517

P2 You want to cut 24 two-foot braces from boards 12 feet long. How many boards do you need?

A	B	C	D
4	6	12	24

P3 Lydia can drive 180 miles in 3 hours. On Tuesday she drove for 7 hours at that rate. How many miles did she drive?

A	B	C	D
60	420	600	1260

P4 It is 480 miles from Danville to Brownsville. At an average of 60 miles per hour, how many hours will Janelle take?

A	B	C	D
6	8	60	540

P5 April changes her car's oil every 3,500 miles. She bought it new, and it now shows just over 17,500 miles. How many oil changes has it had?

A	B	C	D
5	14	123	1236

P6 Maria spent 8 minutes fitting a showerhead, 33 minutes clearing a drain and 18 minutes fixing a faucet. **About** how many minutes did she take in all?

A	B	C	D
90	60	30	20

P7 A shipment of 33 crates is delivered. Each crate weighs 41 pounds. **Approximately** how many pounds did workers unload?

A	B	C	D
40	120	1200	2000

P8 Four friends bought a birthday cake for $21 and balloons for $15, and split the cost equally. How much did each pay?

A	B	C	D
$4	$5	$9	$36

P9 David paid $20 toward a dinner bill of $128. The other 9 people split the rest equally. How much does each of them pay?

A	B	C	D
$12	$18	$20	$108

P10 A large 1-topping pizza is $14, plus $2 for each extra topping. How much is a large pizza with 3 toppings?

A	B	C	D
$20	$18	$16	$14

P11 Bagels are 2 for $1. What is the greatest number of bagels you can buy for $7?

A	B	C	D
7	10	14	15

P12 How many months would it take to save $1800 at $75 a month? [1]

P13 A binder holds at most 630 sheets of paper. How many 45-page documents can it hold? [1]

Check yourself

1. Round 7,849 to the nearest ten, the nearest hundred and the nearest thousand. Explain why the answer to the nearest hundred is not 7,900. [3]

2. Work out 403 − 158 by hand. Show where you borrowed, and check your answer by adding. [2]

3. Write the keys you would press on the TI-30XS to find 15% of 260, and the answer. [2]

4. A bus travels 180 miles in 4 hours. Write which formula you use, then find its average speed. [2]

5. A shop sells pens at $3 each. Mai spends $27 and then buys 2 more pens. How many pens did she buy in all? Use the five steps and write each one. [3]

Chapter quiz

Q1 In 1,436,879, which digit is in the ten thousands place?

A	B	C	D
1	3	4	6

Q2 What is 2,451 rounded to the nearest hundred?

A	B	C	D
2,400	2,450	2,500	3,000

Q3 Which symbol means “is greater than or equal to”?

A	B	C	D
<	≤	>	≥

Q4 Sue is 57 and Kathy is 38. How many years older is Sue?

A	B	C	D
19	21	29	95

Q5 In 54 ÷ 3 = 18, which number is the quotient?

A	B	C	D
54	3	18	57

Q6 On the TI-30XS, how do you get the square root function?

A	B	C	D
Press 2nd, then x^2	Press x^2 twice	Hold 2nd and x^2 together	Press (−), then x^2

Q7 To subtract on the TI-30XS, which key do you press?

A	B	C	D
The − key with the other operations	The (−) key at the bottom	The 2nd key	The % key

Q8 One sofa needs 12 yards of fabric at $14 a yard. How many yards do 3 sofas need?

A	B	C	D
4	36	42	168

Q9 Sell 75 boxes in 3 days. Day 1: 16 sold. Day 2: 34 sold. How many must sell on day 3?

A	B	C	D
25	41	50	59

Q10 A car averages 55 miles per hour for 3 hours. How far does it go?

A	B	C	D
18 miles	58 miles	110 miles	165 miles

Q11 A set of 4 floor mats costs $44. What is the price of one mat?

A	B	C	D
$11	$40	$48	$176

Q12 You know the distance and the rate. Which formula gives the time?

A	B	C	D
t = d ÷ r	t = d × r	t = r ÷ d	t = d − r

End of assignment · Check your answers against the chapter at gurujazzy.com/subjects/ged-mathematics/chapter-1-number-sense-and-problem-solving/