

# Mental Math

## Grade 10 Essential Mathematics (20S)

B-1

### Unit B: Net Pay

General Questions	Answers
1. It costs \$4.00 for a package of 3 chocolate bars. Geri spends \$20 on chocolate bars. How many chocolate bars does she buy?	15
2. You worked 35 hours this week. Your hourly wage is \$10. How much was your gross pay?	\$350
3. You walk 8 km north, 6 km east, 3 km north, and finally 4 km west. What distance have you walked?	21 km
4. Write the percent as a decimal: 3.5%.	0.035
5. Arrange the numbers from largest to smallest: $\frac{1}{2}$ , 0.29, $\frac{3}{4}$ , 0.65, 0.34	$\frac{3}{4}$ , 0.65, $\frac{1}{2}$ , 0.34, 0.29
Unit Questions	
6. Deductions of \$16.85 for CPP and \$10.55 for EI are made to your salary. What is the total deduction?	\$27.40
7. How much income tax do you pay on each cheque if the provincial tax is \$42 and the federal tax is \$56 each time?	\$98
8. True or False? Net pay is more than gross pay.	False
Other Questions	
9.	
10.	

# Mental Math

## Grade 10 Essential Mathematics (20S)

B-2

### Unit B: Net Pay

#### General Questions

1. What are the factors of 8?
2. You are getting ready for a barbeque you are hosting. It costs \$1.50 for a package of 30 plastic cups. How much does each plastic cup cost?
3. You buy 2 packs of hotdogs at \$12.00 each and 3 packs of chicken burgers at \$15.00 each. How much must you pay in total?
4. Write the following decimal as a fraction: 0.058
5. Solve for  $h$ :  $h + 12 = 32$

#### Answers

1, 2, 4, 8

\$0.05

\$69.00

$\frac{58}{1000}$  or  $\frac{29}{500}$

20

#### Unit Questions

6. You pay \$33.01 for CPP for your gross salary of \$734.07. What is your salary after this deduction?
7. Marie's gross salary is \$576.49. After a deduction for CPP, her pay is \$552.49. How much is the CPP deduction?
8. After a deduction for CPP of \$26.02, Linda's net pay is \$653.46. What is Linda's gross pay?

\$701.06

\$24.00

\$679.48

#### Other Questions

9.

10.

# Mental Math

## Grade 10 Essential Mathematics (20S)

B-3

### Unit B: Net Pay

General Questions	Answers
1. You were paid \$180 from your part-time job. Your hourly wage is \$9. How many hours did you work?	20
2. Which is smaller: $\frac{4}{5}$ or $\frac{7}{10}$ ?	$\frac{7}{10}$
3. Add: $3 + 6 + 7 + 4 + 3$	23
4. You want to save \$12,000 to buy a car 1 year from now. How much do you have to save per month to reach this goal?	\$1000
5. Rewrite the fraction in lowest terms: $\frac{33}{21}$	$\frac{11}{7}$
Unit Questions	
6. If you pay 5% to CPP and your monthly income is \$5000, how much is your CPP deduction each month?	\$250
7. Your monthly income is \$400. You owe 4.95% of your income for CPP. Do you owe more than or less than \$20 for CPP?	less
8. If you pay \$30 in CPP for a week, how much do you owe per year?	\$1560
Other Questions	
9.	
10.	

# Mental Math

## Grade 10 Essential Mathematics (20S)

B-4

### Unit B: Net Pay

#### General Questions

1. What is 4 times  $\frac{1}{2}$ ?
2. There are approximately 2.5 cm in 1 inch. A table measures 50 inches long. What is the approximate length of the table in centimetres?
3. You are out for dinner with your best friend for his birthday. The bill comes and you pay for everything. If the total is \$35.75 and you leave \$40 on the table (including tip), how much are you tipping the server?
4. Is an angle that measures  $35^\circ$  acute, right, obtuse, straight, or reflex?
5. Estimate the CPP (4.95%) if the gross pay is \$600.

#### Answers

2

125

\$4.25

acute

$\approx$  \$30

#### Unit Questions

6. You owe \$10.20 in EI for a gross salary of \$589.89. What is your salary after this deduction?
7. Marie's gross salary is \$636.00. Her net salary is \$625.00 after deducting EI. How much does she owe for EI?
8. After a CPP deduction of \$9.50, Linda's net salary is \$540.00. What is her gross pay?

\$579.69

\$11.00

\$549.50

#### Other Questions

9.

10.

# Mental Math

## Grade 10 Essential Mathematics (20S)

B-5

### Unit B: Net Pay

General Questions	Answers
1. What is the range of the following numbers: 0.2, 0.6, 0.08, 0.5, 0.03?	0.57
2. A dozen muffins costs \$8.66. How much would you expect half a dozen muffins to cost?	\$4.33
3. Solve for $d$ : $3d = 9$	3
4. Subtract: $46 - 29$	17
5. If 2 blocks on a street have a length of 100 m, how many metres long is 5 blocks?	250
Unit Questions	
6. If you owe 1.5% for EI and your monthly income is \$1000, how much do you owe for EI?	\$15.00
7. Your monthly income is \$400. You owe 1.73% of your income for EI. Do you owe more or less than \$7 for EI?	less
8. If you owe \$11 for CPP each week, how much do you owe in one year?	\$572
Other Questions	
9.	
10.	

# Mental Math

## Grade 10 Essential Mathematics (20S)

B-6

### Unit B: Net Pay

#### General Questions

1. Estimate the EI (1.5%) charged if you have a gross pay of \$250.
2. List four different methods of payment for work.
3. You buy a waffle iron for your mother for her birthday. The waffle iron costs \$40 (taxes included) and its price is reduced by 20%. If you have \$30, how much more will you need?
4. I have 9 letters in my name. Is it possible that half of those letters are vowels?
5. What are the first 3 multiples of 7?

#### Answers

≈ \$4

piecework,  
commission,  
annual salary,  
hourly rate

\$2

No

7, 14, 21

#### Unit Questions

6. If you owe 4.95% for CPP and 1.5% for EI, what percent do you owe in total for these two deductions?
7. Ava makes a weekly payment of \$9. What percent of her weekly income of \$150 is the payment?
8. In one month, you owe \$75.00 in income tax, \$11.50 for EI, and \$29.75 for CPP. What is the total amount of deductions owed for the month?

6.45%

6%

\$116.25

#### Other Questions

9.

10.

# Mental Math

## Grade 10 Essential Mathematics (20S)

B-7

### Unit B: Net Pay

General Questions	Answers
1. You travel from 9:00 a.m. until 4:00 p.m. each day for 5 days. How many total hours did you travel?	35
2. You are craving 5¢ candy. You have \$1.43 in your pocket. How many candies can you afford?	28 candies
3. Evaluate: $\frac{4}{5} + \frac{2}{3}$	$\frac{22}{15}$
4. There are 34 passengers on a bus. At the next stop, 7 people leave and 5 people board the bus. How many passengers are left on the bus?	32
5. Evaluate: $\frac{6}{0}$	not possible or no such number
Unit Questions	
6. You receive a gross salary of \$283.00. What is your net income if your deductions are \$75.00?	\$208.00
7. You pay \$46.80 in federal income tax and \$32.95 in provincial income tax. What is your total income tax payment?	\$79.75
8. Your weekly gross income is \$543.60. The total deductions for the week are \$153.60. What is your net income?	\$390.00
Other Questions	
9.	
10.	

# Mental Math

## Grade 10 Essential Mathematics (20S)

B-8

### Unit B: Net Pay

#### General Questions

1. If 3% of 500 is 15, what is 12% of 500?
2. Write the following as an improper fraction:  $2\frac{3}{7}$
3. If you are  $\frac{3}{2}$  times taller than your brother and your brother is 4 feet tall, how tall are you?
4. Solve for  $v$ :  $9v = 63$
5. Identify the type of angle for an angle that measures  $156^\circ$ .

#### Answers

60

$\frac{17}{7}$

6 feet

7

obtuse

#### Unit Questions

6. How much income tax will you pay if your taxable income is \$30,500 and if you pay 10% of your taxable income to income tax?
7. If the income tax rate is 10.8% in Manitoba and 6.05% in Ontario, what is the percent difference in the two tax rates?
8. Julie must pay \$2600.70 and \$3700.80 for provincial and federal income tax, respectively. How much income tax must she pay in total?

\$3050

4.75%

\$6301.50

#### Other Questions

9.

10.



# Mental Math

## Grade 10 Essential Mathematics (20S)

B-9

### Unit B: Net Pay

General Questions	Answers
1. Fill in the blanks for the pattern: $-43, -38, -33, \underline{\quad}, \underline{\quad}$	$-28, -23$
2. You train with your soccer team 4 evenings per week for 90 minutes each evening. How many hours do you train each week?	6
3. You have \$4.65. If you buy a package of gum for \$2.95, how much money will you have left over?	\$1.70
4. Which is larger, 0.54 or 39%?	0.54
5. You work 5 hours per day, 6 days per week. If your hourly wage is \$10, how much do you make bi-weekly (for two weeks)?	\$600
Unit Questions	
6. Your daily net pay has increased by 5%. If you originally earned \$120, what is your new net pay?	\$126.00
7. Your weekly gross pay is \$750.00. Your deductions are \$243.00. What is your net pay each week?	\$507.00
8. Your weekly gross pay is \$802.50. Your net pay is \$550.00. What is the amount of your deductions?	\$252.00
Other Questions	
9.	
10.	

# Mental Math

## Grade 10 Essential Mathematics (20S)

B-10

### Unit B: Net Pay

#### General Questions

#### Answers

1. You need to make exact change for a customer at your work. She has given you \$60 and her bill is \$42.60. How much money will you give her?
2. Write the following percent as a decimal: 46.1%
3. There are 21 people in your class. You make 2 dozen cupcakes to share with the class. Will you have enough?
4. Complete the pattern: 24, 28, 32, 36, \_\_\_\_, \_\_\_\_
5. It is 11:30 a.m. right now. You are going out for dinner at 17:00. How long is it until you go out for dinner?

\$17.40

0.461

Yes,  
3 extra

40, 44

5.5 hours

#### Unit Questions

6. You work 12 hours at a rate of \$13 per hour. How much money do you earn?
7. If you earn \$600 gross pay in 24 hours of work, what is your hourly rate of pay?
8. Your income is \$4000 and your total deductions are \$598. Estimate the percent of your income that you pay for deductions.

\$156

\$25/hour

≈ 15%

#### Other Questions

9.

10.