

High School Mathematics Test 2013

Year
9

Earning Money

Calculator
Allowed

Skills and Knowledge Assessed:

- Solve problems involving earning money .

Name _____

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Section 1 Short Answer Section

Write all working and answers in the spaces provided on this test paper.

1. Noel has a casual job, where he is paid \$45.60 per hour. Yesterday he worked for 8 hours. What would be his gross pay for the day?

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2. Omar works as a clerk in a law office and is paid a salary of \$ 42 920.80. What is his weekly pay?

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3. Patrice collects chestnuts on a farm and is paid \$15.60 per 5 kg bag that she takes to the farmer. In one week she collected 135 kg of chestnuts. What was she paid for them?

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4. The Riverside Insurance company pays its salespeople a commission of 15% of the income from the policies that they sell. Quentin is a salesman who last week sold policies which brought an income of \$9 480.00. What was his commission for the week?

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5. Ricky works for a truck spares company which pays him a normal rate of \$65.00/hour for a 35 hour week, which he works Monday to Friday, and double time for weekends. Last week Ricky worked his normal roster and then worked 4 hours on Saturday and 4 hours on Sunday. What was he paid for the week?

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6. Suzie is in a salaried job where she is paid \$980.00 per week. For the next four weeks, she is taking her annual leave, where she is entitled to her regular pay plus a 17.5% holiday loading. What will she be paid for the four weeks?

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7. Talulah is paid \$2 600.00 gross per week in her salaried job as a hospital administrator. She has PAYG tax deducted at a rate of 35% of her total salary. What is her net weekly pay after tax?

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8. Uri works in a factory where he applies glaze to ceramic tiles. He is paid \$25.40 for every 1 000 tiles that he glazes. How many tiles did he glaze if he was paid \$1 524.00?

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9. Vera has a normal wage rate of \$54.80 per hour for a seven hour day and is paid time and a half for the first 3 hours of overtime and double time after that. Yesterday she worked for 12 hours. What was her gross pay yesterday?

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10. Will is a musician who is paid an advance on his royalties of \$48 000 for a new album. When the album is released he will receive royalties of 12% of sales. If each album sells for \$25.00, how many albums must he sell to cover the advance?

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Section 2 Multiple Choice Section

Mark all your answers on the accompanying multiple choice answer sheet, not on this test paper. You may do any working out on this test paper. Calculators are allowed for this section.

1. Deah is on a salary, and receives \$3 075.00 gross per fortnight. What is her annual salary?
A. \$79 950.00 B. \$92 250.00 C. \$153 750.00 D. \$159 900.00

2. Eli is a plumber who is paid an hourly rate of \$64.80. What would he earn in a week in which he works 36 hours?
A. \$1 166.40 B. \$1 944.00 C. \$2 332.80 D. \$2 592.00

3. Finn works casually picking fruit, during his holidays. He is paid \$5.40 per 20 kg bin that he fills. How many kilograms of fruit did he pick if he earned \$324.00 in a day?
A. 60 kg. B. 120 kg C. 600 kg. D. 1 200 kg.

4. Garry is a real estate salesman who is paid a retainer of \$250.00 per week plus a commission of 1.5% of his sales. Last week his sales were \$250 000. What was his gross pay?
A. \$1 000.00 B. \$3 750.00 C. \$4 000.00 D. \$4 750.00

5. Heather writes a novel and is paid royalties of \$2.35 per book sold. How many books were sold in a month if she earned \$5 875.00?
A. 250 books. B. 1 380 books. C. 1 478 books. D. 2 500 books.

6. Ilsa is paid at normal rates of \$45.20 per hour. In one week she was paid for 40 hours at normal rates and 8 hours overtime at time and a half. What was her gross pay for the week?
A. \$1 808.00 B. \$2 169.60 C. \$2 350.40 D. \$2 531.20

7. Bridgeport Automotive pays Jake \$25.50/hour normal rates for a 36 hour week and time and a half for overtime. Last week Jake's gross pay was \$1 300.50. How many hours did he work last week?
A. 44 B. 46 C. 48 D. 49

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8. Kerrie works in the office at a mine where her regular hourly rate is \$50.40/hour for a 36 hour week. She receives a dirt allowance of \$25.40/hour when she has to go out to the pit to collect pay sheets and other data. Last week she worked her regular hours and spent $8\frac{1}{2}$ hours of that at the pit. What was her pay for last week?
- A. \$2 030.30 B. \$2 458.70 C. \$2 728.80 D. \$3 373.10
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9. Lana prepares bulk mail for an advertising company and is paid \$72 per 1000 that she prepares. Last week she prepared 2 500 flyers per day for 5 days. What did she earn for the week?
- A. \$180 B. \$900 C. \$1 800 D. \$9 000
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10. Margaret is paid a retainer of \$480 per week plus a commission of 6% of her sales. Last week her gross pay including commission was \$1 404.00. What were her sales last week?
- A. \$924 B. \$15 400 C. \$22 920 D. \$31 400
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Section 3 Longer Answer Section

Write all working and answers in the spaces provided on this test paper.

Marks

1. Xanthe is a salaried clerk who has a gross weekly pay of \$1 200 from which she has 26% deducted for PAYG tax. She also has deductions of \$12 for union fees, and \$55.60 for health fund membership.

a) What is her gross annual salary?

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b) What is her weekly take home pay?

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Marks

- c) Use the table below to calculate the annual income tax that Xanthe should pay.

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<i>Taxable income</i>	<i>Tax on this income</i>
\$1 – \$6,000	Nil
\$6,001 – \$35,000	15c for each \$1 over \$6,000
\$35,001 – \$80,000	\$4,350 plus 30c for each \$1 over \$35,000
\$80,001 – \$180,000	\$17,850 plus 38c for each \$1 over \$80,000
\$180,001 and over	\$55,850 plus 45c for each \$1 over \$180,000

- d) She also has to pay a Medicare levy of 1.5% of her annual salary. How much is this?

1

- e) Work out the amount that Xanthe is due as a tax refund, or that she must pay as extra tax.

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High School Mathematics Test 2013

Multiple Choice Answer Sheet

Name _____

Completely fill the response oval representing the most correct answer.

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|-----|---|-----------------------|---|-----------------------|---|-----------------------|---|-----------------------|
| 1. | A | <input type="radio"/> | B | <input type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |
| 2. | A | <input type="radio"/> | B | <input type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |
| 3. | A | <input type="radio"/> | B | <input type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |
| 4. | A | <input type="radio"/> | B | <input type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |
| 5. | A | <input type="radio"/> | B | <input type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |
| 6. | A | <input type="radio"/> | B | <input type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |
| 7. | A | <input type="radio"/> | B | <input type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |
| 8. | A | <input type="radio"/> | B | <input type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |
| 9. | A | <input type="radio"/> | B | <input type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |
| 10. | A | <input type="radio"/> | B | <input type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |

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ANSWERS

Section 1	
1.	$\text{Pay} = 45.6 \times 8 = \364.80
2.	$\text{Weekly Pay} = 42920.80 \div 52 = \825.40
3.	$\text{Number of Bags} = 135 \div 5 = 27 \text{ bags.}$ $\text{Pay} = 27 \times 15.6 = \421.20
4.	$\text{Commission} = 0.15 \times 9480 = \$1\,422.00$
5.	$\text{Overtime hours} = 8 \text{ hours at double time} = 16 \text{ hours at normal rates.}$ $\text{Pay} = \$65 \times (35 + 16) = \$65 \times 51 = \$3\,315.00$
6.	$\text{Four weeks pay} = 980 \times 4 = \$3\,920.00$ $\text{Pay with holiday loading} = 3920 \times 1.175$ $= \$4\,606.00$
7.	$\text{Net pay} = 2600 \times 0.65$ $= \$1\,690.00$
8.	$\text{No of 1000's of Tiles} = 1524 \div 25.4$ $= 60$ $\text{No of tiles} = 60\,000$
9.	$\text{Hours paid} = 7 \text{ normal} + 3 \text{ time and a half} + 2 \text{ double.}$ $\text{Equivalent hours} = 7 + 3 \times 1.5 + 2 \times 2 = 15.5 \text{ hours}$ $\text{Pay} = 15.5 \times 54.8$ $= \$849.40$
10.	$\text{Each album he receives } 12\% \text{ of } \$25 = 0.12 \times 25 = \$3.00$ $\text{Number of albums} = 48000 \div 3$ $= 16\,000 \text{ albums}$

Section 2	
1.	A
2.	C
3.	D
4.	C
5.	D
6.	C
7.	B
8.	A
9.	B
10.	B

Section 3	
1.	a) Gross annual salary = 1200×52 = \$62 400.00
	b) Weekly take home = $1200 - 12 - 55.60 - 312$ = \$820.40
	c) Income tax on \$62 400 = $(62400 - 35000) \times 0.30 + \4350 = $8220 + 4350$ = \$12 570.00
	d) Medicare = 0.015×62400 = \$936
	PAYG deducted = $1200 \times 0.26 \times 52$ = \$16 224.00 e) Total Tax due = $12570 + 936$ = 13506 Refund due = $16224 - 13506$ = \$2 718.00

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Multiple Choice Answer Sheet

Name _____ Marking Sheet

Completely fill the response oval representing the most correct answer.

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|-----|---|----------------------------------|---|----------------------------------|---|----------------------------------|---|----------------------------------|
| 1. | A | <input checked="" type="radio"/> | B | <input type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |
| 2. | A | <input type="radio"/> | B | <input type="radio"/> | C | <input checked="" type="radio"/> | D | <input type="radio"/> |
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| 10. | A | <input type="radio"/> | B | <input checked="" type="radio"/> | C | <input type="radio"/> | D | <input type="radio"/> |