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Homework Bank $oldsymbol{A}$

Name:	
School:	Class:
Date:	

A washing machine normally priced at \$850 is being offered at a sale with a 20% discount. Find the sale price of the washing machine.

A menswear store normally sells jeans for \$56 per pair. In a sale the store offers \$7 off the price of each pair of jeans. Find the percentage discount being offered on each pair of jeans.

- 3 William bought a mountain bike for \$360 and sold it for a 15% profit. Find
 - a the profit

b the selling price

4 Daniel had no further use for his skateboard and sold it for \$66, making a loss of 12%. How much did he pay for his skateboard?

5 A 420 gram tin of spaghetti contains the amounts of nutrients shown.

Nutrient	Weight
Protein	20:6 g
Fat	2:9 g
Carbohydrate	51:2 g
Sugars	18:5 g
Dietary fibre	21:0 g
Sodium	$1600 \mathrm{mg}$
Potassium	្ន1175 mg
Total	

- a Express the following nutrients as a percentage of the total amount:
 - i protein
 - ii sodium
- b Calculate the weight of carbohydrate in a 100 g serving of spaghetti.
- c In the next week the company plans to produce 1 tonne of spaghetti. How much carbohydrate would be present in this weight of spaghetti?

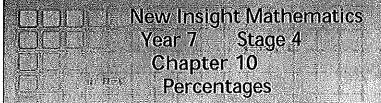
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Homework Bank $oldsymbol{\mathsf{A}}$

Martha invested \$5400 in an account which pays 3.6% p.a. interest. How much interest did she earn for the year?

7 An electrical goods store normally sells CD players for \$165. In a sale a 15% discount was offered on all items in the store. Find the sale price of the CD players.

8 Damian bought a surfboard for \$490. 3 months later he sold it for a loss of 20%. Find the price for which he sold his surfboard.



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Homework Bank $\, {\sf B} \,$

Name:	
School:	Class:
Date:	

What percentage is represented by the following shaded diagrams?

a



b



2 Choose the correct answer by estimating the percentage.

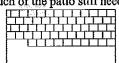


a How much cola remains in the bottle?

A C 10% 80% B D



b How much of the patio still needs to be paved?



A 60%

B 10%

C 80%

D 40%

- 3 Express the following amounts as percentages:
 - a 0.4624
 - b 0.73
 - c 0.002
 - d 1.532

4 Express the following fractions and mixed numbers as percentages.

a $\frac{4}{10}$

b $\frac{5}{8}$

c $2\frac{1}{4}$

d 5 4

5 Express the following as percentages:

a 3.62

b $\frac{7}{50}$

c $4\frac{7}{25}$

6 Express the following percentages as a fraction or a mixed number:

a 47%

b 36%

c 140%

d 325%

New Insight Mathematics Year 7 Stage 4 Chapter 10

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Homework Bank

		''	ercentages	
7	Co a	onvert the followin 36.5%	ng percentages into de	cimal form:
	b	6.75%		
	c	127.5%		
8	Ex sin a	opress the following the state of the state	ng percentages as frac	tions in their
	b	56.75%		
9	Fi a	nd 20% of 95		
	b	45% of 400		
	e	15% of 120		The state of the s
10	Ex a	opress the first qua 10 km, 50 km	antity as a percentage	of the second.
	b	8 months, 2 year	rs	
	n	mm & cm		

What are the "20% off" sale prices that would appear on the following items whose normal prices are as follows: \$150

\$27.50

12 James scored 23 marks out of a possible 40 marks for his

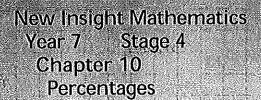
mathematics test. What was his score as a percentage?

13 30% of a farmer's crop was barley and the rest was wheat. If he planted 1200 hectares of crops, what area was planted with barley?



Homework Bank C

N	ame:	· · · · · · · · · · · · · · · · · · ·	4 Express as a percentage:
School: Class:		****	a 64 marks out of a possible 80 marks
D	ate:		
1	Convert the following percentages into a 6.25%	decimal form:	 \$8000 annual house rental out of my annual salary of \$40 000
	b 112.5%		c 332 books sold out of 500 printed
			d 45 seconds out of 2 minutes
	c 3.26%	-	The Williams
2	Express the following percentages as a mixed number in their simplest form: a 10.75%	fraction or a	5 What are the "15% off" sale prices that would appear on the following items whose normal prices are given below? (Round all answers to the nearest cent.) a \$148.50
	b 121.4%		
	c 0.05%		b \$465
3	Find a 25% of 160 b 15% of 40		6 What is the percentage mark-down for the items which carry a sale price as shown with the normal ticket price in brackets? Give all answers correct to the nearest whole number.
	c 75% of 56		a \$17.50 (\$20) b \$33.30 (\$40)



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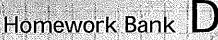
Homework Bank $\, {\sf C} \,$

- 640 students attend Peter's school. If 35% of these students use public transport, how many students travel to school by some other means?
- 8 Vicki has eaten $1 \frac{1}{2}$ of her chocolate bar and Bonnie has 90% of hers left. Who has the most chocolate bar left?
- 9 Calculate the simple interest on the following investments:
 - a \$1500 at 7% for 2 years
 - b \$4000 at 3.25% for 5 years
 - e \$350 at 9% p.a. for 4 months

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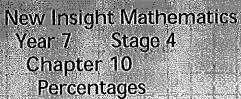
Homework Bank

Name: School: Date:		Class:		4	Ex sin a	Express the following percentages as fractions in simplest form: a 47.5%			
	Express the 0.042	following as perce	entages:		b	12.75%			
J	b 3.51			5	Fin a	nd 75% of 96			
($c = \frac{7}{40}$				b	95% of 140	**************************************	1 m <u>.</u>	
•	d 5 4/5			900 (100 (100 (100 (100 (100 (100 (100 (c	16% of 240			: :
							Control of the contro		
	Convert the mixed num a 47%	e following percent ber in simplest for	tages to a fraction or a	6	W	hat percentage is 24 of 60		A STATE OF THE STA	
1	b 130%				b	220 mL of 2 L		## -	
3	c 4% Convert the	e following percen	tages to decimals:		c	\$1.20 of \$300			
•	a 14.5%					7.45.1	ufi ^r		
1	b 122.25%	%			đ	16 hours of 1 da	у		



- What is the "12% off" sale price on an item normally listed as \$256?
- What is the ticket price when goods are marked up 32% and the cost price is
 - \$140
 - \$3400

- What is the percentage markdown for items which carry a sale price as shown with the normal ticket price in brackets.
 - \$61.20 (\$72)
 - \$104.96 (\$128)
- 10 Calculate the simple interest on the following investments:
 - \$4200 at 2.5% p.a. for 3 years
 - \$5200 at 6.25% for 4 months



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Answer Sheet

Sheet A

- \$680
- $12\frac{1}{2}\%$
- a \$54 b \$414
- \$75
- a i 17.6% ii 1.4% b 12.2 grams c 112kg
- \$194.40
- \$140.25
- \$392

Sheet B

- a 18% b 43%
- aC bD
- a 46.24% b 73% c 0.2% d 153.2%
- a 40% b $62\frac{1}{2}$ % c 225% d 540%
- а 362% b 14% с 428%
- $a \frac{47}{100}$ $b \frac{9}{25}$ $c 1 \frac{2}{5}$ $d 3 \frac{1}{4}$
- 7 a 0.365 b 0.0675 c 1.275
- 8 a $\frac{41}{400}$ b $\frac{227}{400}$
- 9 a 19 b 180 c 18
- 10 a 20% b $33\frac{1}{3}$ % c $6\frac{1}{4}$ %
- 11 a \$120 b \$22
- 12 $57\frac{1}{2}\%$
- 13 360 ha

Sheet C

- a 0.0625 b 1.125 c 0.0326
- a $\frac{43}{400}$ b $1\frac{107}{500}$ c $\frac{1}{2000}$
- a 40 b 6 c 42
- a 80% b 20% c 66.4% d 37.5%
- a \$126.23 b \$395.25
- a 13% = b 17%
- 416 students
- 8 Vicki, 11 or 91.67% left
- a \$210 b \$650 c \$10.50

Sheet D

- 1 a 4.2% b 351% c 17.5% d 580%
- 2 $a \frac{47}{100}$ $b 1 \frac{3}{10}$ $c \frac{1}{25}$
- 3 a 0.145 b 1.2225
- 4 a $\frac{19}{40}$ b $\frac{51}{400}$
- 5 a 72 b 133 c 38.4
- 6 a 40% b 11% c 0.4% d 66 $\frac{2}{3}$ %
- 7 \$225.28
- 8 a \$184.80 b \$4488
- a 15% b 18%
- 10 a \$315 b \$108.33