

WORKSHEET

Percentages without calculators

Calculators not allowed.

1	Convert each of the following p	raction:			
	a 70%	b 12%	c 40%		
	d $33\frac{1}{3}\%$	e 5%	f 75%		
2 Convert each of the following percentages to a decimal:					
		b 9%	c 65%		
	d 20%	$12\frac{1}{2}\%$	f 88.3%		
3	Write each of these fractions as	a percentage:			
	a $\frac{1}{4}$	$\frac{1}{5}$	c $\frac{2}{3}$		
		$\frac{1}{8}$	3		
	d $\frac{9}{10}$	8	T <u>-</u>		
4	Find:				
	a 25% of \$260	b 10% of \$110	c 60% of \$80		
	d $12\frac{1}{2}$ % of \$36 g 1% of \$255	e 5% of \$180	f 20% of \$748		
	g 1% of \$255	h $33\frac{1}{3}\%$ of \$420			
5	Increase:	5			
	a \$320 by 5%	b \$42 by 30%			
	c \$120 by $66\frac{2}{3}\%$	d \$700 by 8%			
6 Which of the following is the correct answer to: 18% of 500? Circle the correct answer.					
	A 90 B 9 C 200	D 2			
7	Express as a percentage:				
	a 11 out of 55	b \$18 out of \$			
	c 40 minutes out of 2 hours _	d 12 cm out o	f1m		
e 375 mL out of 3 L f 12 goals out of 15 attempts		of 15 attempts			
8	Find:				
	a 80% of 4 L	b 5% of \$72	c $33\frac{1}{3}\%$ of 2 hours		
	d $2\frac{1}{2}$ % of \$300	e 1% of 60	f 75% of 5 kg		
	g 15% of \$20	h 110% of \$350			

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9 Find 7% of \$850. Circle the correct answer.						
A \$955 B \$59.50 C \$595 D \$95.50						
10 Decrease:						
a \$150 by 5% b \$77 by 10%						
c \$250 by 80% d \$440 by $12\frac{1}{2}$ %						
11 50% of a number is 32. What is the number?						
12 Which of the following is 22% of \$1400? Circle the correct answer.						
A \$74.00 B \$30.80 C \$740.00 D \$308.00						
13 If 9% of an amount is \$27, what is the amount?						
14 Express each of the following as a percentage:						
a 12 out of 20 b \$40 out of \$160						
c 3 months out of 2 years d 80 kg out of 0.4 t						
e 3 hours out of 1 day f 20 serves out of 25 attempts						
15 Which of the following is 3% of \$450? Circle the correct answer.						
A \$15.00 B \$13.50 C \$7.50 D \$7.00						
16 If 15% of an amount is \$45, what is the amount?						
17 What is the price of a \$68 pair of jeans after 10% GST has been added?						
18 There were 24 boys and 40 girls at the cinema. What percentage of the cinema goers were girls?						
19 30% of a number is 18. What is the number?						
20 What is the price of an \$84 DVD player after a 25% discount?						
21 Aaron earns 4% commission on the sale of cars. How much does he earn for selling a \$34 500 car?						
22 Tegan had a weekly wage of \$800 but it increased to \$832 this week.						
a What was the increase in Tegan's wage?						
b What was the percentage increase of her wage?						
23 Of the students at a school, 7% have red hair. If this is 63 students, how many students are there at the school?						
24 Dario earns \$900 per week but spends \$270 of it on rent. What percentage of his weekly earnings is this?						
25 A computer was bought for \$2000 and resold for \$1700. Calculate the loss as a percentage of the cost price.						



Answers

Answers						
1	a $\frac{7}{10}$	b $\frac{3}{25}$	c $\frac{2}{5}$	d $\frac{1}{3}$		
	e $\frac{1}{20}$	$f \frac{3}{4}$				
2	a 0.18	b 0.09	c 0.65	d 0.2		
3	e 0.125 a 25%	f 0.883 b 20%	c $66\frac{2}{3}\%$	d 90%		
	1	f 60%	3			
	-		.			
4		b \$11	c \$48	d \$4.50		
		f \$149.60	g \$2.55	h \$140		
	a \$336	b \$54.60	c \$200	d \$756		
6	А		1			
7	a 20%	b 75%	c $33\frac{1}{3}\%$	d 12%		
	e 12.5%	f 80%	5			
8	a 3.2 L	b \$3.60	c 40 min	d \$7.50		
	e 0.6	f 3.75 kg	g \$3	h \$385		
9	В					
10	a \$142.50	b \$69.30	c \$50	d \$385		
11	64					
12	D					
13	\$300		1			
14		b 25%	c $12\frac{1}{2}\%$	d 20%		
	e $12\frac{1}{2}\%$	f 80%				
15	В					
16	\$300					
17	\$74.80					
18	$62\frac{1}{2}\%$					
19	60					
20	\$63					
21	\$1380					
22	a \$32	b 4%				
23	900					
24	30%					
25	15%					