

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					
	a 18%	b 9%	c 65%		
	d 20%	e $12\frac{1}{2}\%$	f 88.3%		
3	Write each of these fractions as	a percentage:			
	a $\frac{1}{4}$	b $\frac{1}{5}$	c $\frac{2}{3}$		
	9	1	3		
	$\frac{1}{10}$	e <u>-</u>	T <u>-</u>		
4	Find:				
	a 25% of \$260	b 10% of \$110	c 60% of \$80		
	d $12\frac{1}{2}$ % of \$36	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 co	orrect answer to: 18% of 50	0? Circle the correct answer.		
	A 90 B 9 C 200	D 2			
7	xpress 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			

2 of 3							
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

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
-	e 0.125	f 0.883	2		0.00/
3	a 25%	b 20%	c $66\frac{-}{3}\%$	d	90%
	e $12\frac{1}{2}\%$	f 60%			
4	a \$65	b \$11	c \$48	d	\$4.50
	e \$9	f \$149.60	g \$2.55	h	\$140
5	a \$336	b \$54.60	c \$200	d	\$756
6	А		1		
7	a 20%	b 75%	c $33\frac{-}{3}\%$	d	12%
	e 12.5%	f 80%	-		
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	a 60%	b 25%	c $12\frac{1}{2}\%$	d	20%
	e $12\frac{1}{2}\%$	f 80%			
15	B				
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%				