CHAPTER 1

565

INTEGERS

More Questions for Practice

1. Find:							
(a) $(-8) \times$		(b) $(-4) \times 0$		$4 \times (-1)$		(<i>d</i>) (–5)	
(e) $7 \times (-$	3)	(f) $(-9) \times (-9)$	(g)	$0 \times (-1)$	3)	(<i>h</i>) (–1)	× 1
2. Find:							
(<i>a</i>) $3 \div (-$,	(b) $(-5) \div 1$. ,	7 ÷ (-7)		(<i>d</i>) (-15	, , ,
(e) $70 \div ($	-10)	$(f) 9 \div (-9)$	(g)	$0 \div (-3)$)	$(h) 0 \div 3$	3
5		owing, for $a = -3$,					
(a) $a \times b$			<i>(b)</i>	$a \times (b \times$	$\langle c \rangle = (a \times b)$) × C	
(c) $a \times (b$	$(a \times b) = (a \times b)$	$(a \times c) + (a \times c)$					
	- 0	n out of >, < or =			0		
(<i>a</i>) $7 \times (-$	3) [21]	(b) $(-5) \times (-2)$] - 10 (c)	$(-8) \times 2$	215	(d) (-8)	× (-5)
5. Simplify:							
(a) [(-36)]	\div 12] × [24	÷ (-6)] - (-3)	(b)	[(-2) ×	$7 - 4] \div [(-1)]$	$(12) \div 2] + 1$	
(u) [(00)]							
6. Let * be d							
6. Let * be d		low: -2 , where $a, b \in I$	ch				
6. Let * be d <i>a</i> *	$b = a \times (-b)$			wing:			
6. Let * be d <i>a</i> *	$b = a \times (-b)$ s definition,	- 2, where $a, b \in \mathbf{I}$	f the follo	wing: 9 * (–7)			
6. Let * be d <i>a</i> * Using this (<i>a</i>) 5 * (-4	$b = a \times (-b)$ s definition, b)	- 2, where $a, b \in I$ determine each o	f the follor (c)	9 * (-7)		Γrue' or 'N	ot true':
 6. Let * be d <i>a</i> * Using this (<i>a</i>) 5 * (-4) 7. Check each 	$b = a \times (-b)$ s definition, b)	- 2, where $a, b \in I$ determine each o (b) $(-8) * (-3)owing for a = 9, b$	f the follor (c) = -3 and	9 * (-7) c = 3, an			ot true':
 6. Let * be d <i>a</i> * Using this (<i>a</i>) 5 * (-4) 7. Check each 	$b = a \times (-b)$ s definition, b) th of the follow	- 2, where $a, b \in I$ determine each o (b) $(-8) * (-3)owing for a = 9, b$	f the follor (c) = -3 and	9 * (-7) c = 3, an	d write if 'I		ot true':
 6. Let * be d a * Using this (a) 5 * (-4) 7. Check each (a) (a ÷ b) 8. Simplify: 	$b = a \times (-b) + c$ s definition, b) ch of the foll b) ÷ c = a ÷ (b)	- 2, where $a, b \in I$ determine each o (b) $(-8) * (-3)owing for a = 9, b$	f the follor (c) = -3 and (b)	9 * (-7) c = 3, an	d write if 'I		ot true':
 6. Let * be d a * Using this (a) 5 * (-4) 7. Check eace (a) (a ÷ b) 8. Simplify: (a) [(-3) ± 	$b = a \times (-b) + c$ s definition, b) ch of the foll b) ÷ c = a ÷ (b)	- 2, where $a, b \in I$ determine each o (b) (-8) * (-3) owing for $a = 9, b$ $\div c$) 3)} - 5] × [(-2) × 3	f the follor (c) = -3 and (b)	9 * (-7) c = 3, an	d write if 'I		ot true':
 6. Let * be d a * Using this (a) 5 * (-4) 7. Check eace (a) (a ÷ b) 8. Simplify: (a) [(-3) ± 	$b = a \times (-b) + b = a \times (-b) + b = a \times (-b) + b = a +$	- 2, where $a, b \in I$ determine each o (b) (-8) * (-3) owing for $a = 9, b$ $\div c$) 3)} - 5] × [(-2) × 3 + [(-3) × 2]	f the follor (c) = -3 and (b)	9 * (-7) c = 3, an $a \div (b + 1)$	d write if 'I		ot true':
 6. Let * be d a * Using this (a) 5 * (-4) 7. Check each (a) (a ÷ b) 8. Simplify: (a) [(-3) ± 	$b = a \times (-b) + b = a \times (-b) + b = a \times (-b) + b = a +$	- 2, where $a, b \in I$ determine each o (b) (-8) * (-3) owing for $a = 9, b$ $\div c$) 3)} - 5] × [(-2) × 3 + [(-3) × 2]	f the follor (c) = -3 and (b)	9 * (-7) c = 3, an $a \div (b + 1)$	d write if 'I		ot true':
 6. Let * be d a * Using this (a) 5 * (-4) 7. Check each (a) (a ÷ b) 8. Simplify: (a) [(-3) ÷) (b) 6 ÷ [{(a) } 	$b = a \times (-b) + b = a \times (-b) + b = a \times (-b) + b = a + b = a + b = a + b = b = b = b = b = b = b = b = b = b$	- 2, where $a, b \in I$ determine each o (b) (-8) * (-3) owing for $a = 9, b$ $\div c$) 3)} - 5] × [(-2) × 3 + [(-3) × 2]	f the follor (c) = -3 and (b)]	9 * (-7) c = 3, an $a \div (b + 1)$	d write if 'T - c) = (a ÷ b)	+ (<i>a</i> ÷ <i>c</i>)	
 6. Let * be d a * Using this (a) 5 * (-4 7. Check each (a) (a ÷ b) 8. Simplify: (a) [(-3) ÷ (b) 6 ÷ [{(a) } 1. (a) -16 	$b = a \times (-b) + b = a \times (-b) + b = a \times (-b) + b = a + b = a + b = a + b = b = b = b = b = b = b = b = b = b$	- 2, where <i>a</i> , <i>b</i> ∈ I determine each o (<i>b</i>) (-8) * (-3) owing for <i>a</i> = 9, <i>b</i> \div <i>c</i>) 3)} - 5] × [(-2) × 3 + [(-3) × 2] AN	f the follor (c) = -3 and (b)] ISWERS	9 * (-7) c = 3, an $a \div (b + 1)$ (e) -21	(<i>f</i>) 81	(g) 0	
 6. Let * be d a * Using this (a) 5 * (-4 7. Check eace (a) (a ÷ b) 8. Simplify: (a) [(-3) ÷ (b) 6 ÷ [{ 1. (a) -16 2. (a) -1 	$b = a \times (-b) + b = a \times (-b) + b = a \times (-b) + b = a + b = a + b = a + b = a + b = b = b = b = b = b = b = b = b = b$	- 2, where <i>a</i> , <i>b</i> ∈ I determine each o (<i>b</i>) (-8) * (-3) owing for <i>a</i> = 9, <i>b</i> ÷ <i>c</i>) 3)} - 5] × [(-2) × 3 + [(-3) × 2] AN (<i>c</i>) -4 (<i>a</i>)	f the follor (c) = -3 and (b)] ISWERS (d) 5 (c) (d) 5 (c)	9 * (-7) c = 3, and $a \div (b + 1)$ (e) -21 (e) -7	(f) 81 (f) -1	(g) 0	(<i>h</i>) –1
 6. Let * be d a * Using this (a) 5 * (-4 7. Check eace (a) (a ÷ b) 8. Simplify: (a) [(-3) ÷ (b) 6 ÷ [{ 1. (a) -16 2. (a) -1 	$b = a \times (-b) + b = a \times (-b) + b = a \times (-b) + b = a + b = a + b = a + b = b = b = b = b = b = b = b = b = b$	- 2, where <i>a</i> , <i>b</i> ∈ I determine each o (<i>b</i>) (-8) * (-3) owing for <i>a</i> = 9, <i>b</i> ÷ <i>c</i>) 3)} - 5] × [(-2) × 3 + [(-3) × 2] AN (<i>c</i>) -4 (<i>a</i> (<i>c</i>) -1 (<i>a</i> (<i>c</i>) < (<i>a</i>)	f the follor (c) = -3 and (b)] ISWERS (d) 5 (c) (d) 5 (c)	9 * (-7) c = 3, and $a \div (b + 1)$ (e) -21 (e) -7	(f) 81 (f) -1	(g) 0 (g) 0 (g) 0	(<i>h</i>) –1
 6. Let * be d a * Using this (a) 5 * (-4 7. Check eace (a) (a ÷ b 8. Simplify: (a) [(-3) ÷ (b) 6 ÷ [{0 1. (a) -16 2. (a) -1 4. (a) < 6. (a) 28 	$b = a \times (-b) + b = a \times (-b) + b = a \times (-b) + b = a + b = a + b = a + b = a + b = b = b = b = b = b = b = b = b = b$	- 2, where <i>a</i> , <i>b</i> ∈ I determine each o (<i>b</i>) (-8) * (-3) owing for <i>a</i> = 9, <i>b</i> ÷ <i>c</i>) 3)} - 5] × [(-2) × 3 + [(-3) × 2] AN (<i>c</i>) -4 (<i>a</i> (<i>c</i>) -1 (<i>a</i> (<i>c</i>) < (<i>a</i>)	f the follor (c) = -3 and (b)] ISWERS (d) 5 (c) (d) 5 (c)	9 * (-7) c = 3, and $a \div (b + 1)$ (e) -21 (e) -7	(f) 81 (f) -1	(g) 0 (g) 0 (g) 0	(<i>h</i>) –1