



OFFICIAL GUIDES FOR GMAT 2018

Breakdown and Analysis by e-GMAT



e-GMAT

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Introduction

Keeping suit with the norm it followed last year, the GMAC has released newer editions of Official Guides – OG 2018, OG VR 2018, and OG QR 2018 – this year with some changes. Let's see what these changes are in detail in the sectional breakdown. However, before we go into the details, let's pacify the panicking minds by answering some common questions that many of you might have.

Answers to Some Burning Questions!

Is there an increase in the number of questions?

There is absolutely no increase in the total number of questions in any of the new guides.

In OG 2018 and OG VR 2018: There is NO INCREASE in the number of questions in any of the individual sub-sections (SC, CR, and RC) of Verbal.

Change in # of Verbal Questions		
	OG 2018	OG VR 2018
SC	0	0
CR	0	0
RC	0	0
Total	0	0

In OG 2018 and OG QR 2018: There is NO INCREASE in the number of questions in any of the individual sub-sections (PS and DS) of Quant.

There are some minor changes in the topic-wise mix of questions in Quant in the new guides.

Change in # of Quant Questions



	OG 2018	OG QR 2018
PS	0	0
DS	0	0
Algebra	3	0
Advanced Topics	1	0
Geometry	-1	1
Number Properties	1	0
Word Problems	-4	-1
Total	0	0

We'll see these changes in detail in the Quant Breakdown section in this guide.

Was there a change in the mix of difficulty levels in the guides?

For Verbal

The mix of difficulty levels has changed only quite slightly from OG 2017 to OG 2018.

The mix of difficulty levels has changed notably from OG VR 2017 to OG VR 2018 – quite a few medium difficulty level questions have been removed and a bunch of hard difficulty level questions have been added, notably in the SC section and to some extent in the RC section. (The changes in each sub-section can be found in the respective breakdown sections in this guide.)

Verbal		
	OG 2018	OG VR 2018
Easy	5	7
Medium	-1	-34
Hard	-4	27
Total	0	0

For Quant



However, for Quant, the change in mix of difficulty levels followed a different trend.

The mix of difficulty levels has changed notably from OG 2017 to OG 2018 – quite a few hard difficulty level questions have been removed and a bunch of medium and easy difficulty level questions have been added. (The changes in each sub-section can be found in the respective breakdown sections in this guide.)

The mix of difficulty levels has changed only slightly from OG QR 2017 to OG QR 2018.

Quant - PS		
	OG 2018	OG QR 2018
Easy	14	3
Medium	4	-8
Hard	-18	5
Total	0	0

Quant - DS		
	OG 2018	OG QR 2018
Easy	8	1
Medium	6	2
Hard	-14	-3
Total	0	0

From the above table, it can be clearly observed that the number of easy question have increased in both OG18 and OGQR18. And at the same time the number of difficult question have been reduced. The overall number of PS and DS question removed and added remains the same.

Quant



	OG 2018	OG VR 2018
Algebra	3	0
Advanced Topics	1	0
Geometry	-1	1
Number Properties	1	0
Word Problems	-4	-1
Total	0	0

- The topic level table above is a clear indicator that not much has been changed in terms of the importance of each and every topic.

Should I buy these guides??

Depends. Do you have any of the previous official guide sets (preferably 2016, or 2017)?

If YES, then we believe it is not worth investing in these new guides.

If NO, then we recommend that you invest in these new guides. After all, almost every GMAT test taker would require the Official Guides to supplement his/her preparation.

Now, that some of the burning questions have been addressed, let's dive into the sectional analysis of these OG guides. At the end of this guide, you'd find the mapping of questions between the 2017 guides and the 2018 guides.



Quant – Breakdown and Analysis

Below is a breakdown of the number of questions changed in each area/topic (also difficulty-wise) in the 2018 guide compared to the corresponding 2017 guide.

(For instance, the first line of the below table tells us that OG 2018 has **6 more** of the Easy Algebra questions than OG 2017 has.)

For Quant		
	OG 2018	OG QR 2018
Algebra	3	0
Easy	6	1
Medium	3	0
Hard	-6	-1
Advanced Topic	1	0
Easy	2	0
Medium	4	0
Hard	-5	0
Geometry	-1	1
Easy	4	-1
Medium	1	1
Hard	-6	1
Number Properties	1	0
Easy	1	0
Medium	3	-1
Hard	-3	1
Word Problems	-4	-1
Easy	9	4
Medium	-1	-6
Hard	-12	1
Total	0	0
Easy	22	4
Medium	10	-6
Hard	-32	2



For Quant		
	OG 2018	OG QR 2018
PS	0	0
Easy	14	3
Medium	4	-8
Hard	-18	5
DS	0	0
Easy	8	1
Medium	6	2
Hard	-14	-3

Observations

- The above analysis shows that a lot of difficult WP questions have been removed from OG 2018 and medium questions from OG QR 2018.
- More number of easy questions of WP and Algebra has been added, which only leads us to conclusion that changes were mostly made to balance the difficulty level of each topic.
- A quick look at the questions and we can see that few of the questions that have been added are similar to some of the old GMAT questions. For example:

- [The Official Guide For GMAT® Quantitative Review, 2ND Edition](#)

What is the greatest number of identical bouquets that can be made out of 21 white and 91 red tulips if no flowers are to be left out? (Two bouquets are identical whenever the number of red tulips in the two bouquets is equal and the number of white tulips in the two bouquets is equal) [this was posted in 2014]

- Same question in 2017 just the wordings and numbers are different –

- Bouquets are to be made using white tulips and red tulips, and the ratio of the number of white tulips to the number of red tulips is to be the same in each bouquet. If there are 15 white tulips and 85 red tulips available for the bouquets, what is the greatest number of bouquets that can be made using all the tulips available? [OG2018 Question]



- Also similar DS questions have been converted to PS.

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Check Answer Show Answer Flag for Review

For a week Raymond is paid at the rate of x dollars per hour for the first 40 hours he works and y dollars per hour for the hours worked in excess of 40 hours. What is the value of y ?

(1) If Raymond works 46 hours in one week, he will earn \$416.50.

(2) Raymond's hourly rate for the hours worked in excess of 40 hours per week is 1.5 times his hourly rate for the first 40 hours.

☐ Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
☐ Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
☒ BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
☐ EACH statement ALONE is sufficient.
☐ Statements (1) and (2) TOGETHER are NOT sufficient.

42. (Book Question: 42)

Last week Chris earned x dollars per hour for the first 40 hours worked plus 22 dollars per hour for each hour worked beyond 40 hours. If last week Chris earned a total of 816 dollars by working 48 hours, what is the value of x ?

- ☐ A. 13
☐ B. 14
☒ C. 15
☐ D. 16
☐ E. 17

(2018OG)

In short, not much has changed in terms of the difficulty level, except that the number of easy questions of Word Problems and Algebra have increased and difficult questions from all topics have reduced.

There is not much change even in the type of questions that have been added. The emphasis on each topic seems to be the same, based on the number of questions of that type (WP>NP=Alg>Geo>AT)

Does this data point indicate that the GMAC may be decreasing its difficulty of some of the topics?

Could be possible - as noticed in Word Problems.

Should you ignore the tough questions of these topics, where the difficulty level is less?

NO! You should not do anything of that sort.



The GMAT examination is adaptive in nature and as you do well on it, the difficulty level of questions increases. Hence it is advisable that you practice a healthy mix of easy, medium and hard questions, so that you are well prepared for any surprises the test may throw at you.

Verdict:

There are no surprises as such in this section and the questions that are added are also similar to the ones that were there in the previous version. Hence, there aren't any worrisome changes made in this section.



Sentence Correction – Breakdown and Analysis

Below is a breakdown of the number of questions changed difficulty-wise in the 2018 guide compared to the corresponding 2017 guide.

	OG 2018	OG VR 2018
SC	0	0
Easy	1	4
Medium	-1	-25
Hard	0	21

Overall, OG 2018 doesn't have much of a change in the difficulty mix of SC questions. However, in OG VR 2018, the number of Medium difficulty SC questions have been reduced the number of Hard difficulty SC questions have been increased by a noticeable amount.

Let's now delve into the question level analysis for the newly added questions in these guides.



Observations – OG 2018 – SC

of New Questions = 21

Ques. #	SV	VTense	Pronoun	Modifier	Parl.	Comp.	Idiom	Struc.	Difficulty
674	✓			✓					Easy
680					✓	✓			Easy
684								✓	Easy
685	✓		✓		✓				Easy
699	✓				✓		✓	✓	Medium
702		✓		✓				✓	Medium
717				✓			✓		Medium
735	✓	✓							Medium
743			✓	✓					Hard
745						✓	✓	✓	Hard
750				✓				✓	Hard
751				✓	✓				Hard
763					✓				Hard
770				✓					Hard
777			✓	✓					Hard
780					✓	✓			Hard
781		✓					✓		Hard
782				✓	✓				Hard
784					✓	✓			Hard
796				✓			✓		Hard
799	✓			✓	✓				Hard

✓ = Primary Errors

✓ = Secondary Errors

There is no major shuffle in the order of the sentences. There is no atypical usage of any of the concepts too.

As the chart shows, there are many questions on Modifiers and Parallelism questions. So, these two remain the one of the most heavily tested topics on GMAT SC.



Observations – OG VR 2018 - SC

of New Questions = 17

Ques. #	SV	VTense	Pronoun	Modifier	Parl.	Comp.	Idiom	Struc.	Difficulty
198			✓	✓					Easy
202	✓			✓				✓	Easy
204								✓	Easy
207			✓	✓					Easy
209	✓			✓					Easy
211	✓			✓					Easy
212							✓	✓	Easy
220					✓		✓		Easy
267							✓	✓	Hard
268			✓					✓	Hard
270					✓		✓		Hard
274							✓	✓	Hard
284	✓							✓	Hard
285							✓		Hard
286							✓	✓	Hard
292			✓	✓					Hard
293					✓				Hard

- ✓ = Primary Errors
 ✓ = Secondary Errors

OG VR 2018 has no new question that test Verb Tenses. Modifiers and Parallelism remain on the most heavily tested concepts on GMAT SC. There are quite a few questions on idioms as well.



Critical Reasoning – Breakdown and Analysis

Below is a breakdown of the number of questions changed difficulty-wise in the 2018 guide compared to the corresponding 2017 guide.

	OG 2018	OG VR 2018
CR	0	0
Easy	0	-3
Medium	-1	1
Hard	1	2

Overall, neither OG 2018 nor OG VR 2018 have much of a change in the difficulty mix of CR questions.

Let's now delve into the question level analysis for the newly added questions in these guides.



OG 2018

Removed from OG 2017

Below is a category-wise breakdown of the number of questions removed from the CR section of OG 2017.

Category	# of Questions Removed
Inference	1
Assumption	1
Evaluate	3
Strengthen	8
Weaken	1
Boldface	3
Paradox	1
Flaw	1

Added in OG 2018

Below is a category-wise breakdown of the number of questions added to the CR section of OG 2018.

Category	# of New Questions Added
Inference	1
Assumption	1
Evaluate	2
Strengthen	5
Weaken	3
Boldface	3
Paradox	4
Flaw	0

Net change to OG 2018

Below is a category-wise breakdown of the change in number of questions in the CR section of OG 2018.

Category	Net change in # of Questions
Inference	0
Assumption	0
Evaluate	-1
Strengthen	-3
Weaken	2
Boldface	0
Paradox	3
Flaw	-1



OG VR

Removed from OG VR 2017

Below is a category-wise breakdown of the number of questions removed from the CR section of OG VR 2017.

Category	# of Questions Removed
Inference	0
Assumption	1
Evaluate	0
Strengthen	7
Weaken	5
Boldface	1
Paradox	1
Flaw	0

Added in OG VR 2018

Below is a category-wise breakdown of the number of questions added to the CR section of OG VR 2018.

Category	# of New Questions Added
Inference	0
Assumption	2
Evaluate	1
Strengthen	4
Weaken	5
Boldface	1
Paradox	1
Flaw	1

Net change to OG VR 2018

Below is a category-wise breakdown of the change in number of questions in the CR section of OG VR 2018.

Category	Net change in # of Questions
Inference	0
Assumption	1
Evaluate	1
Strengthen	-3
Weaken	0
Boldface	0
Paradox	0
Flaw	1



Observations

There aren't any peculiar questions in the newly added questions. Everything looks normal.

However, one thing that stands out from the breakdown of both guides is a clear decrease in the number of strengthen-type questions. (In fact, further analysis reveals that ~25% of the Strengthen-type questions removed belong to the FIB category of Strengthen-type questions. It is worth mentioning that none of the newly added Strengthen-type questions belong to this category.)



Does this data point indicate that the GMAC may be decreasing its emphasis on this type of questions?

May be

Should you ignore these questions? Should you change your preparation strategy?

Absolutely NOT!

These are too few a data points to reach such a conclusion. Despite the apparent decrease in number, Strengthen-type questions still form a core part of GMAT Critical Reasoning questions and one should never ignore them – unless the GMAT gives a shout out to ignoring these questions.

What about the other categories of questions?

The number of data points for the other categories are even fewer to draw any conclusive inferences.

Verdict:

Nothing out of the blue in this section – apart from a slight decrease in the number of Strengthen-type questions.



Reading Comprehension – Breakdown and Analysis

Below is a breakdown of the number of questions changed difficulty-wise in the 2018 guide compared to the corresponding 2017 guide.

	OG 2018	OG VR 2018
RC	0	0
Easy	4	6
Medium	1	-10
Hard	-5	4

The new OG guides change the difficulty mix of RC questions.

The change in difficulty mix of RC questions is relatively lower in the OG 2018.

However, this change is much more prominent in the OG VR 2018. A bunch of Medium difficulty questions have been removed and handful each of Easy difficulty and Hard difficulty questions have been added to the mix.

Observations

Although the overall number of questions did not change in the RC section in either of the guides,

- 5 passages from OG 2017 have been removed and 7 new passages have been added to OG 2018 – a net increase of 2 RC passages.
 - Making the total number of RC passages in OG 2018 = 30
- 3 passages from OG VR 2017 have been removed and 4 new passages have been added to OG VR 2018 – a net increase of 1 RC passage.
 - Making the total number of RC passages in OG VR 2018 = 19

Nothing out of the blue has been observed in this section – apart from the minor increase in the number of passages as mentioned above.



Mapping between OG 2017 and OG 2018

Verbal - SC

OG 2017	OG 2018	OG 2018	OG 2017
668	670	668	676
669	669	669	669
670	671	670	668
671	679	671	670
672	672	672	672
673	673	673	673
674	675	674 (New)	-
675	Removed	675	674
676	668	676	677
677	676	677	678
678	677	678	679
679	678	679	671
680	681	680 (New)	-
681	682	681	680
682	683	682	681
683	686	683	682
684	687	684 (New)	-
685	688	685 (New)	-
686	689	686	683
687	Removed	687	684
688	690	688	685
689	691	689	686
690	692	690	688
691	693	691	689
692	Removed	692	690



693	694	693	691
694	695	694	693
695	696	695	694
696	697	696	695
697	698	697	696
698	Removed	698	697
699	700	699 (New)	-
700	701	700	699
701	703	701	700
702	704	702 (New)	-
703	705	703	701
704	706	704	702
705	707	705	703
706	708	706	704
707	709	707	705
708	710	708	706
709	711	709	707
710	712	710	708
711	Removed	711	709
712	713	712	710
713	Removed	713	712
714	714	714	714
715	715	715	715
716	716	716	716
717	718	717 (New)	-
718	719	718	717
719	720	719	718
720	721	720	719
721	722	721	720
722	723	722	721
723	724	723	722



724	725	724	723
725	726	725	724
726	727	726	725
727	Removed	727	726
728	728	728	728
729	729	729	729
730	730	730	730
731	731	731	731
732	732	732	732
733	733	733	733
734	734	734	734
735	736	735 (New)	-
736	737	736	735
737	Removed	737	736
738	738	738	738
739	739	739	739
740	740	740	740
741	741	741	741
742	742	742	742
743	744	743 (New)	-
744	746	744	743
745	747	745 (New)	-
746	748	746	744
747	749	747	745
748	Removed	748	746
749	752	749	747
750	753	750 (New)	-
751	754	751 (New)	-
752	755	752	749
753	Removed	753	750
754	Removed	754	751



755	756	755	752
756	757	756	755
757	Removed	757	756
758	758	758	758
759	Removed	759	760
760	759	760	761
761	760	761	762
762	761	762	763
763	762	763 (New)	-
764	764	764	764
765	765	765	765
766	766	766	766
767	Removed	767	768
768	767	768	769
769	768	769	770
770	769	770 (New)	-
771	771	771	771
772	772	772	772
773	Removed	773	774
774	773	774	776
775	Removed	775	777
776	774	776	778
777	775	777 (New)	-
778	776	778	779
779	778	779	781
780	Removed	780 (New)	-
781	779	781 (New)	-
782	783	782 (New)	-
783	785	783	782
784	786	784 (New)	-
785	787	785	783



786	788	786	784
787	Removed	787	785
788	Removed	788	786
789	789	789	789
790	Removed	790	791
791	790	791	792
792	791	792	793
793	792	793	794
794	793	794	795
795	794	795	796
796	795	796 (New)	-
797	797	797	797
798	798	798	798
799	800	799 (New)	-
800	801	800	799
801	Removed	801	800
802	802	802	802
803	803	803	803
804	804	804	804
805	805	805	805
806	806	806	806
807	807	807	807



Verbal - CR

OG 2017	OG 2018	OG 2018	OG 2017
544	544	544	544
545	545	545	545
546	547	546 (New)	-
547	548	547	546
548	549	548	547
549	551	549	548
550	552	550 (New)	-
551	553	551	549
552	555	552	550
553	Removed	553	551
554	557	554 (New)	-
555	558	555	552
556	Removed	556 (New)	-
557	Removed	557	554
558	559	558	555
559	560	559	558
560	562	560	559
561	563	561(New)	-
562	564	562	560
563	565	563	561
564	566	564	562
565	567	565	563
566	Removed	566	564
567	568	567	565
568	569	568	567
569	570	569	568
570	571	570	569



571	572	571	570
572	573	572	571
573	Removed	573	572
574	574	574	574
575	576	575 (New)	-
576	Removed	576	575
577	577	577	577
578	578	578	578
579	579	579	579
580	Removed	580	581
581	580	581	582
582	581	582	583
583	582	583	584
584	583	584	585
585	584	585	586
586	585	586	587
587	586	587	588
588	587	588	589
589	588	589 (New)	-
590	590	590	590
591	591	591	591
592	592	592	592
593	593	593	593
594	594	594	594
595	595	595	595
596	596	596	596
597	Removed	597	598
598	597	598	599
599	598	599 (New)	-
600	600	600	600
601	601	601	601



602	602	602	602
603	603	603	603
604	604	604	604
605	605	605	605
606	606	606	606
607	607	607	607
608	608	608	608
609	609	609	609
610	610	610	610
611	Removed	611	612
612	611	612	613
613	612	613	614
614	613	614	616
615	616	615	617
616	614	616	615
617	615	617	618
618	617	618	619
619	618	619	620
620	619	620	621
621	620	621	622
622	621	622	623
623	622	623	624
624	623	624	626
625	Removed	625	627
626	624	626 (New)	-
627	625	627 (New)	-
628	628	628	628
629	629	629	629
630	630	630	630
631	632	631(New)	-
632	Removed	632	631



633	633	633	633
634	636	634 (New)	-
635	637	635 (New)	-
636	Removed	636	634
637	638	637	635
638	639	638	637
639	641	639	638
640	642	640 (New)	-
641	644	641	639
642	645	642	640
643	Removed	643 (New)	-
644	646	644	641
645	Removed	645	642
646	647	646	644
647	648	647	646
648	Removed	648	647
649	649	649	649
650	650	650	650
651	652	651(New)	-
652	Removed	652	651
653	653	653	653
654	654	654	654
655	655	655	655
656	Removed	656 (New)	-
657	657	657	657
658	658	658	658
659	659	659	659
660	Removed	660 (New)	-
661	662	661 (New)	-
662	663	662	661
663	664	663	662



664	665	664	663
665	Removed	665	664
666	666	666	666
667	667	667	667



Verbal – RC

OG 2017	OG 2018	OG 2018	OG 2017
1	1	1	1
2	Removed	2	14
3	7	3 (New)	-
4	12	4 (New)	-
5	8	5	15
6	13	6	22
7	21	7	3
8	9	8	5
9	16	9	8
10	22	10 (New)	-
11	23	11	13
12	Removed	12	4
13	11	13	6
14	2	14	16
15	5	15 (New)	-
16	14	16	9
17	24	17 (New)	-
18	Removed	18	20
19	Removed	19	21
20	18	20	27
21	19	21	7
22	6	22	10
23	26	23	11
24	27	24	17
25	28	25 (New)	-
26	30	26	23



27	20	27	24
28	Removed	28	25
		29 (New)	-
		30	26



Quant - PS

OG 2017	OG 2018	OG 2018	OG 2017
1	1	1	1
2	2	2	2
3	3	3 (New)	-
4	4	4	3
5	5	5 (New)	-
6	6	6 (New)	-
7	7	7	4
8	Removed	8	5
9	Removed	9	6
10	Removed	10	7
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16 (New)	-
17	17	17	16
18	18	18	17
19	19	19	18
20	20	20	19
21	21	21	20
22	22	22 (New)	-
23	23	23 (New)	-
24	24	24 (New)	-
25	25	25	21
26	Removed	26 (New)	-
27	31	27	22



28	Removed	28	23
29	32	29	24
30	Removed	30	25
31	35	31	27
32	36	32	29
33	37	33 (New)	-
34	Removed	34 (New)	-
35	Removed	35	31
36	38	36	32
37	39	37	33
38	41	38	36
39	43	39	37
40	44	40 (New)	-
41	45	41	38
42	46	42 (New)	-
43	47	43	39
44	48	44	40
45	49	45	41
46	51	46	42
47	52	47	43
48	54	48	44
49	56	49	45
50	57	50 (New)	-
51	58	51	46
52	59	52	47
53	61	53 (New)	-
54	62	54	48
55	63	55 (New)	-
56	64	56	49
57	65	57	50
58	66	58	51



59	67	59	52
60	70	60 (New)	-
61	71	61	53
62	73	62	54
63	74	63	55
64	75	64	56
65	76	65	57
66	77	66	58
67	78	67	59
68	80	68 (New)	-
69	82	69 (New)	-
70	83	70	60
71	84	71	61
72	86	72 (New)	-
73	87	73	62
74	88	74	63
75	89	75	64
76	91	76	65
77	92	77	66
78	94	78	67
79	Removed	79 (New)	-
80	95	80	68
81	97	81 (New)	-
82	99	82	69
83	100	83	70
84	101	84	71
85	102	85 (New)	-
86	103	86	72
87	105	87	73
88	Removed	88	74
89	106	89	75



90	107	90 (New)	-
91	108	91	76
92	109	92	77
93	110	93 (New)	-
94	111	94	78
95	112	95	80
96	113	96 (New)	-
97	114	97	81
98	115	98 (New)	-
99	116	99	82
100	117	100	83
101	118	101	84
102	119	102	85
103	120	103	86
104	Removed	104 (New)	-
105	121	105	87
106	123	106	89
107	124	107	90
108	126	108	91
109	127	109	92
110	128	110	93
111	129	111	94
112	130	112	95
113	131	113	96
114	132	114	97
115	133	115	98
116	134	116	99
117	Removed	117	100
118	135	118	101
119	136	119	102
120	137	120	103



121	138	121	105
122	141	122 (New)	-
123	142	123	106
124	143	124	107
125	144	125 (New)	-
126	145	126	108
127	146	127	109
128	147	128	110
129	148	129	111
130	149	130	112
131	150	131	113
132	152	132	114
133	153	133	115
134	154	134	116
135	Removed	135	118
136	Removed	136	119
137	155	137	120
138	156	138	121
139	Removed	139 (New)	-
140	157	140 (New)	-
141	158	141	122
142	159	142	123
143	Removed	143	124
144	160	144	125
145	161	145	126
146	162	146	127
147	163	147	128
148	164	148	129
149	165	149	130
150	166	150	131
151	167	151 (New)	-



152	168	152	132
153	169	153	133
154	170	154	134
155	171	155	137
156	172	156	138
157	174	157	140
158	175	158	141
159	176	159	142
160	177	160	144
161	178	161	145
162	179	162	146
163	180	163	147
164	Removed	164	148
165	Removed	165	149
166	Removed	166	150
167	Removed	167	151
168	181	168	152
169	182	169	153
170	183	170	154
171	184	171	155
172	185	172	156
173	186	173 (New)	-
174	187	174	157
175	Removed	175	158
176	Removed	176	159
177	188	177	160
178	189	178	161
179	Removed	179	162
180	190	180	163
181	191	181	168
182	192	182	169



183	193	183	170
184	194	184	171
185	Removed	185	172
186	Removed	186	173
187	Removed	187	174
188	Removed	188	177
189	Removed	189	178
190	195	190	180
191	196	191	181
192	197	192	182
193	198	193	183
194	Removed	194	184
195	199	195	190
196	200	196	191
197	202	197	192
198	203	198	193
199	204	199	195
200	205	200	196
201	206	201 (New)	-
202	207	202	197
203	208	203	198
204	209	204	199
205	210	205	200
206	211	206	201
207	212	207	202
208	213	208	203
209	214	209	204
210	215	210	205
211	216	211	206
212	Removed	212	207
213	Removed	213	208



214	Removed	214	209
215	Removed	215	210
216	Removed	216	211
217	218	217 (New)	-
218	219	218	217
219	Removed	219	218
220	220	220	220
221	221	221	221
222	222	222	222
223	223	223	223
224	225	224 (New)	-
225	Removed	225	224
226	Removed	226	227
227	226	227	228
228	227	228	229
229	228	229 (New)	-
230	230	230	230



Quant - DS

OG 2017	OG 2018	OG 2018	OG 2017
231	231	231	231
232	Removed	232	233
233	232	233 (New)	-
234	234	234	234
235	235	235	235
236	236	236	236
237	237	237	237
238	238	238	238
239	239	239	239
240	240	240	240
241	241	241	241
242	242	242	242
243	243	243	243
244	244	244	244
245	245	245	245
246	246	246	246
247	247	247	247
248	248	248	248
249	249	249	249
250	250	250	250
251	251	251	251
252	252	252	252
253	253	253	253
254	254	254	254
255	255	255	255
256	256	256	256
257	257	257	257



258	259	258 (New)	-
259	261	259	258
260	263	260 (New)	-
261	264	261	259
262	265	262 (New)	-
263	268	263	260
264	269	264	261
265	270	265	262
266	271	266 (New)	-
267	272	267 (New)	-
268	275	268	263
269	Removed	269	264
270	Removed	270	265
271	279	271	266
272	280	272	267
273	281	273 (New)	-
274	283	274 (New)	-
275	285	275	268
276	286	276 (New)	-
277	289	277 (New)	-
278	290	278 (New)	-
279	291	279	271
280	294	280	272
281	295	281	273
282	296	282 (New)	-
283	297	283	274
284	298	284 (New)	-
285	299	285	275
286	301	286	276
287	302	287 (New)	-
288	303	288 (New)	-



289	304	289	277
290	Removed	290	278
291	305	291	279
292	307	292 (New)	-
293	308	293 (New)	-
294	309	294	280
295	310	295	281
296	311	296	282
297	312	297	283
298	Removed	298	284
299	Removed	299	285
300	314	300 (New)	-
301	315	301	286
302	316	302	287
303	Removed	303	288
304	317	304	289
305	318	305	291
306	319	306 (New)	-
307	320	307	292
308	321	308	293
309	322	309	294
310	323	310	295
311	324	311	296
312	325	312	297
313	327	313 (New)	-
314	328	314	300
315	329	315	301
316	330	316	302
317	331	317	304
318	332	318	305
319	333	319	306



320	335	320	307
321	Removed	321	308
322	336	322	309
323	337	323	310
324	338	324	311
325	340	325	312
326	341	326 (New)	-
327	342	327	313
328	Removed	328	314
329	343	329	315
330	344	330	316
331	Removed	331	317
332	345	332	318
333	Removed	333	319
334	346	334 (New)	-
335	347	335	320
336	348	336	322
337	349	337	323
338	350	338	324
339	351	339 (New)	-
340	Removed	340	325
341	352	341	326
342	353	342	327
343	354	343	329
344	Removed	344	330
345	355	345	332
346	356	346	334
347	357	347	335
348	358	348	336
349	359	349	337
350	Removed	350	338



351	360	351	339
352	361	352	341
353	362	353	342
354	363	354	343
355	364	355	345
356	365	356	346
357	366	357	347
358	367	358	348
359	368	359	349
360	369	360	351
361	370	361	352
362	371	362	353
363	372	363	354
364	373	364	355
365	Removed	365	356
366	374	366	357
367	Removed	367	358
368	375	368	359
369	Removed	369	360
370	Removed	370	361
371	Removed	371	362
372	Removed	372	363
373	Removed	373	364
374	Removed	374	366
375	378	375	368
376	379	376 (New)	-
377	380	377 (New)	-
378	381	378	375
379	383	379	376
380	384	380	377
381	385	381	378



382	Removed	382 (New)	-
383	386	383	379
384	Removed	384	380
385	Removed	385	381
386	387	386	383
387	388	387	386
388	389	388	387
389	390	389	388
390	392	390	389
391	393	391 (New)	-
392	394	392	390
393	395	393	391
394	396	394	392
395	397	395	393
396	398	396	394
397	Removed	397	395
398	399	398	396
399	Removed	399	398
400	400	400	400
401	401	401	401
402	402	402	402
403	403	403	403
404	404	404	404



Mapping between OG VR 2017 and OG VR 2018

Verbal - SC

OG VR 2017	OG VR 2018	OG VR 2018	OG VR 2017
189	189	189	189
190	190	190	190
191	191	191	191
192	Removed	192	193
193	192	193	194
194	193	194	195
195	194	195	196
196	195	196	197
197	196	197	198
198	197	198 (New)	-
199	199	199	199
200	215	200	202
201	Removed	201	203
202	200	202 (New)	-
203	201	203	204
204	203	204 (New)	-
205	205	205	205
206	Removed	206	207
207	206	207 (New)	-
208	208	208	208
209	217	209 (New)	-
210	218	210	212
211	219	211 (New)	-
212	210	212 (New)	-
213	213	213	213



214	214	214	214
215	216	215	200
216	221	216	215
217	222	217	209
218	Removed	218	210
219	223	219	211
220	224	220 (New)	-
221	225	221	216
222	226	222	217
223	227	223	219
224	Removed	224	220
225	251	225	221
226	262	226	222
227	228	227	223
228	Removed	228	227
229	278	229	230
230	229	230	231
231	230	231	232
232	231	232	233
233	232	233	234
234	233	234	235
235	234	235	236
236	235	236	238
237	238	237	239
238	236	238	237
239	237	239	242
240	Removed	240	241
241	240	241	256
242	239	242	251
243	243	243	243
244	244	244	244



245	245	245	245
246	Removed	246	247
247	246	247	252
248	Removed	248	253
249	Removed	249	255
250	260	250	257
251	242	251	225
252	247	252	259
253	248	253	261
254	265	254	262
255	249	255	263
256	241	256	264
257	250	257	265
258	276	258	266
259	252	259	268
260	277	260	250
261	253	261	270
262	254	262	226
263	255	263	271
264	256	264	272
265	257	265	254
266	258	266	273
267	Removed	267 (New)	-
268	259	268 (New)	-
269	Removed	269	274
270	261	270 (New)	-
271	263	271	275
272	264	272	276
273	266	273	278
274	269	274 (New)	-
275	271	275	280



276	272	276	258
277	Removed	277	260
278	273	278	229
279	282	279	282
280	275	280	283
281	283	281	284
282	279	282	279
283	280	283	281
284	281	284 (New)	-
285	287	285 (New)	-
286	288	286 (New)	-
287	289	287	285
288	290	288	286
289	297	289	287
290	Removed	290	288
291	291	291	291
292	300	292 (New)	-
293	301	293 (New)	-
294	Removed	294	295
295	294	295	296
296	295	296	298
297	Removed	297	289
298	296	298	299
299	298	299	300
300	299	300	292
301	Removed	301	293



Verbal - CR

OG VR 2017	OG VR 2018	OG VR 2018	OG VR 2017
106	106	106	106
107	107	107	107
108	108	108	108
109	109	109	109
110	114	110	112
111	Removed	111	113
112	110	112 (New)	-
113	111	113	114
114	113	114	110
115	Removed	115	116
116	115	116	118
117	120	117	119
118	116	118	120
119	117	119	121
120	118	120	117
121	119	121	122
122	121	122	123
123	122	123	125
124	Removed	124	126
125	123	125	127
126	124	126	128
127	125	127	129
128	126	128	130
129	127	129	132
130	128	130	134
131	Removed	131	135
132	129	132	136



133	134	133 (New)	-
134	130	134	133
135	131	135	138
136	132	136	140
137	Removed	137 (New)	-
138	135	138	142
139	139	139	139
140	136	140	143
141	Removed	141 (New)	-
142	138	142	145
143	140	143	147
144	Removed	144 (New)	-
145	142	145	148
146	151	146	150
147	143	147	151
148	145	148	154
149	Removed	149	155
150	146	150	156
151	147	151	146
152	Removed	152	157
153	156	153	159
154	148	154 (New)	-
155	149	155	160
156	150	156	153
157	152	157	158
158	157	158	162
159	153	159	163
160	155	160	164
161	Removed	161 (New)	-
162	158	162 (New)	-
163	159	163	165



164	160	164	167
165	163	165	166
166	165	166 (New)	-
167	164	167	168
168	167	168 (New)	-
169	169	169	169
170	170	170	170
171	Removed	171	173
172	Removed	172	174
173	171	173 (New)	-
174	172	174	175
175	174	175 (New)	-
176	Removed	176	180
177	177	177	177
178	178	178	178
179	Removed	179 (New)	-
180	176	180	181
181	180	181	182
182	181	182 (New)	-
183	183	183	183
184	184	184	184
185	Removed	185	186
186	185	186	187
187	186	187 (New)	-
188	188	188	188



Verbal – RC

OG VR 2017	OG VR 2018	OG VR 2018	OG VR 2017
1	1	1	1
2	3	2 (New)	-
3	4	3	2
4	5	4	3
5	6	5	4
6	7	6	5
7	Removed	7	6
8	8	8	8
9	19	9	10
10	9	10 (New)	-
11	Removed	11	12
12	11	12	14
13	Removed	13	15
14	12	14	16
15	13	15	17
16	14	16 (New)	-
17	15	17 (New)	-
18	18	18	18
		19	9



Mapping between OG QR 2017 and OG QR 2018

Quant - PS

OG QR 2017	OG QR 2018	OG QR 2018	OG QR 2017
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13 (New)	-
14	14	14	13
15	15	15	14
16	16	16	15
17	17	17	16
18	18	18	17
19	19	19	18
20	20	20	19
21	21	21	20
22	22	22 (New)	-
23	23	23	21
24	24	24	22
25	25	25	23



26	26	26	24
27	27	27	25
28	28	28	26
29	Removed	29 (New)	-
30	33	30	27
31	34	31 (New)	-
32	Removed	32	28
33	35	33	30
34	36	34	31
35	Removed	35	33
36	37	36	34
37	38	37	36
38	39	38	37
39	Removed	39	38
40	40	40	40
41	41	41	41
42	Removed	42	44
43	Removed	43	46
44	42	44	47
45	Removed	45	49
46	43	46	50
47	44	47	52
48	Removed	48	53
49	45	49	54
50	46	50	55
51	Removed	51	56
52	47	52 (New)	-
53	48	53	58
54	49	54	59
55	50	55 (New)	-
56	51	56	60



57	Removed	57	61
58	53	58	62
59	54	59	63
60	56	60	64
61	57	61	66
62	58	62	67
63	59	63	68
64	60	64	69
65	Removed	65 (New)	-
66	61	66	70
67	62	67	71
68	63	68	72
69	64	69	73
70	66	70 (New)	-
71	67	71 (New)	-
72	68	72	74
73	69	73 (New)	-
74	72	74 (New)	-
75	76	75 (New)	-
76	77	76	75
77	79	77	76
78	80	78 (New)	-
79	81	79	77
80	82	80	78
81	83	81	79
82	84	82	80
83	86	83	81
84	87	84	82
85	88	85 (New)	-
86	90	86	83
87	91	87	84



88	93	88	85
89	94	89 (New)	-
90	95	90	86
91	96	91	87
92	97	92 (New)	-
93	Removed	93	88
94	98	94	89
95	100	95	90
96	101	96	91
97	103	97	92
98	105	98	94
99	106	99 (New)	-
100	107	100	95
101	108	101	96
102	Removed	102 (New)	-
103	Removed	103	97
104	Removed	104 (New)	-
105	Removed	105	98
106	Removed	106	99
107	Removed	107	100
108	109	108	101
109	110	109	108
110	Removed	110	109
111	111	111	111
112	112	112	112
113	Removed	113	114
114	113	114	115
115	114	115	116
116	115	116	117
117	116	117 (New)	-
118	Removed	118	119



119	118	119	120
120	119	120	122
121	Removed	121	123
122	120	122	124
123	121	123	125
124	122	124	126
125	123	125	127
126	124	126	130
127	125	127	132
128	Removed	128	133
129	Removed	129	134
130	126	130	135
131	Removed	131	136
132	127	132	137
133	128	133	139
134	129	134	140
135	130	135 (New)	-
136	131	136	141
137	132	137	142
138	Removed	138	143
139	133	139	144
140	134	140	145
141	136	141(New)	-
142	137	142	146
143	138	143	147
144	139	144 (New)	-
145	140	145	148
146	142	146	149
147	143	147	150
148	145	148	151
149	146	149	152



150	147	150	153
151	148	151	154
152	149	152	155
153	150	153	156
154	151	154	157
155	152	155	158
156	153	156 (New)	-
157	154	157	159
158	155	158	160
159	157	159	161
160	158	160	162
161	159	161	163
162	160	162	164
163	161	163	165
164	162	164	166
165	163	165 (New)	-
166	164	166	167
167	166	167	168
168	167	168 (New)	-
169	169	169	169
170	170	170	170
171	171	171	171
172	172	172	172
173	173	173	173
174	174	174	174
175	175	175	175
176	176	176	176



Quant - DS

OG QR 2017	OG QR 2018	OG QR 2018	OG QR 2017
177	177	177	177
178	179	178 (New)	-
179	180	179	178
180	181	180	179
181	182	181	180
182	183	182	181
183	184	183	182
184	185	184	183
185	186	185	184
186	187	186	185
187	Removed	187	186
188	188	188	188
189	190	189 (New)	-
190	191	190	189
191	192	191	190
192	194	192	191
193	195	193 (New)	-
194	196	194	192
195	197	195	193
196	198	196	194
197	199	197	195
198	Removed	198	196
199	200	199	197
200	201	200	199
201	202	201	200
202	203	202	201
203	204	203	202



204	205	204	203
205	206	205	204
206	207	206	205
207	208	207	206
208	209	208	207
209	Removed	209	208
210	210	210	210
211	211	211	211
212	212	212	212
213	213	213	213
214	214	214	214
215	217	215 (New)	-
216	Removed	216 (New)	-
217	218	217	215
218	219	218	217
219	220	219	218
220	221	220	219
221	222	221	220
222	223	222	221
223	Removed	223	222
224	225	224 (New)	-
225	227	225	224
226	228	226 (New)	-
227	229	227	225
228	230	228	226
229	Removed	229	227
230	232	230	228
231	233	231(New)	-
232	234	232	230
233	235	233	231
234	236	234	232



235	Removed	235	233
236	238	236	234
237	237	237	237
238	Removed	238	236
239	240	239 (New)	-
240	Removed	240	239
241	241	241	241
242	242	242	242
243	Removed	243	245
244	Removed	244 (New)	-
245	243	245	246
246	245	246 (New)	-
247	248	247 (New)	-
248	Removed	248	247
249	Removed	249	250
250	249	250	251
251	250	251	252
252	251	252	253
253	252	253	254
254	253	254	255
255	254	255	256
256	255	256	258
257	Removed	257 (New)	-
258	256	258	259
259	258	259	261
260	Removed	260	262
261	259	261	263
262	260	262	264
263	261	263	265
264	262	264	266
265	263	265	267



266	264	266	268
267	265	267	269
268	266	268	270
269	267	269	271
270	268	270 (New)	-
271	269	271	272
272	271	272	273
273	272	273	274
274	273	274	275
275	274	275	276
276	275	276	277
277	276	277	279
278	Removed	278	280
279	277	279	281
280	278	280	282
281	279	281(New)	-
282	280	282	283
283	282	283 (New)	-
284	284	284	284
285	286	285 (New)	-
286	Removed	286	285
287	287	287	287
288	Removed	288	289
289	288	289	290
290	289	290	293
291	Removed	291 (New)	-
292	Removed	292	294
293	290	293	295
294	292	294	296
295	293	295 (New)	-
296	294	296 (New)	-



297	297	297	297
298	298	298	298
299	299	299	299
300	300	300	300

